

1099

PRELIMINARY
HANDBOOK
OPERATING AND SERVICE
INSTRUCTIONS

GS-16744 AMPLIFIER SUBASSEMBLY
TEST EQUIPMENT

This publication was prepared by Bell Telephone Laboratories, Inc., in behalf of Western Electric Company, Inc., under sub-contract DAC-53-100 with Douglas Aircraft Company, Inc. Sub-contract DAC-53-100 was negotiated with Douglas Aircraft Company, Inc., under Air Force prime contract AF33(600)-16314 between Douglas Aircraft Company, Inc., and Air Materiel Command, United States Air Force.

1 September 1956

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ERRATA:

<u>Page</u>	<u>Location</u>	<u>Change</u>
6	Table 1-1, after "(3) G-235411 Special Shim"	Add: Under column <u>Name of Unit</u> - "(4) G-254872 Cable Assembly (Special Purpose)"; under column <u>Location</u> : "Case 1."
7	at end of par. 1-11	Add sentence: "AG-254872 Cable Assembly has been provided for operation of the test equipment from out- lets in the GS-16751 Test Stand."
9	Par. 1-17, line 1 line 2	"three" to "four" "the meter and the power cable assemblies (previously discussed" to "the meter, the power cable assemblies, and the special purpose cable (previously dis- cussed)"
13	Par. 2-17c, line 2	"If desired, tighten..." to "Tighten..."
101	m, line 4 m, formula	"-0.3 volt" to "-1.5 volts" "138" to "135"
105	q, line 6	"2 divisions (4 parts..." to "3 divisions (6 parts..."
113	h, line 3 i, formula	"within 1 division..." to "within 3 divisions..." "±" to "+"
114	j, line 4	"The meter should read..." to "For values greater than 150 mv, the meter should read..."
116	5-44c, formula	"12.5E _R " to "125E _R "
117	g, formula g, last line	"9.15G _{2.48} " to "9.15G _{2.98} " "where G _{2.48} is the gain..." to "where G _{2.98} is the gain..."
117	h, formula	"21.2G _{8.4} " to "89.5G _{8.4} "

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ERRATA (continued)

<u>Page</u>	<u>Location</u>	<u>Change</u>
118	j, formula	"339G ₁₃₂ " to "1111G ₁₃₂ "
118	k, formula	"±" to "+"
121	l, formula	"±" to "+"
	m, line 1	"...to position 7" to "...to position 8"
128	R1020	"10,000; 10; 0.1; 10; BA-99069" to "250,000; 10; 0.1; 10; BA-99071"
133	Bottom, left-center	Value of C1213 from "2μF" to "6μF"; of C1215 from "2μF" to "6μF"
136	After C2204	Add: C2205, 2μF, 20, -, 110, GA-51901; C2206, 2μF, 20, -, 110, GA-51901; C2207, 2μF, 20, -, 110, GA-51901; C2208, 2μF, 20, -, 110, GA-51901.
141	P2405	delete ground at terminal 4, and then connect lead from terminal 4 to terminal 7.
142	R2507	"511" to "5.11", "D-178618B" to "GA-50083A5R11"
143	P2502	Strap from terminal 22 to terminal 13 should go from 22 to 12.
	R2507, Top Right	"511" to "5.11"
148	R2820	"68,100" to "51,100"; "GA-50084A6812" to "GA-50084A5112"
171	P2502	Strap from terminal 22 to terminal 13 should go from 22 to 12
174	P2802	Strap from terminal 17 to terminal 12 should go from 17 to 13; strap from terminal 18 to terminal 13 should go from 18 to 10; strap from terminal 19 to terminal 10 should go from 19 to 12.

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ERRATA (continued)

<u>Page</u>	<u>Location</u>	<u>Change</u>
196	C1215	Part number from "GA-51901" to "GA-52979"; under <u>DESCRIPTION</u> column "2 MF" to 6 μ F"
199	C1213	Part number from "GA-51901" to "GA-52979"; under <u>DESCRIPTION</u> column "2 MF" to "6 MF".
223	R1020	Under <u>PART NUMBER</u> column, "BA-99307" to "BA-99071" and "35,000 ohms" to "250,000 ohms"
236	R1167	Part number from "GA-50083A1002" to "GA-50083A1001"
237	R1167	Under <u>DESCRIPTION</u> column, "10,000 ohms" to "1,000 ohms"
241	R1125, R1132	Part number from "GA-50086A5114" to "D-176176A"; under <u>DESCRIPTION</u> column, "5.11 MEG" to "5.0 MEG".
287	In <u>REFERENCE SYMBOL</u> column, after C2204	Add: C2205 C2206 C2207 C2208
299	In <u>REFERENCE SYMBOL</u> column, after C2306	Add: C2307
318	R2507	Part number from "D178618B" to "GA-50083A5R11"
319	R2507	Under <u>DESCRIPTION</u> column, "511 ohms" to "5.11 ohms"
357	R2820	Part number from "GA-50084A6812" to "GA-50084A5112" and under <u>DESCRIPTION</u> column, "68,100 ohms" to "51,100 ohms"

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Additional ERRATA:

15 March 1957

<u>Page</u>	<u>Location</u>	<u>Change</u>
vi	5-19, p. 129	"Rev. M" to "Rev. P"
	5-20, p. 131	"Rev. H" to "Rev. J"
	5-22, p. 135	"Rev. D" to "Rev. G"
	5-26, p. 143	"Rev. D" to "Rev. F"
vii	5-39, p. 160	"Rev. K" to "Rev. M"
	5-39, p. 161	"Rev. H" to "Rev. K"
	5-39, p. 162	"Rev. D" to "Rev. F"
	5-40, p. 164	"Rev. H" to "Rev. K"
	5-41, p. 166	"Rev. F" to "Rev. K"
	5-42, p. 167	"Rev. F" to "Rev. H"
	5-46, p. 171	"Rev. F" to "Rev. G"
52	Table 3-1	Delete " (1) DC Voltage adjustments" and Par. Reference "4-7c" for DC VTVM Hycon Model 615

In Table 3-1 Add:

<u>Test Eqpt.</u>	<u>Use</u>	<u>Par. Ref.</u>
TS 340/U	DC voltage adjustments	4-7c

<u>Page</u>	<u>Location</u>	<u>Change</u>
62	Par. 4-9a	Add: 'Operate the "TEST" switch to position 1.'
62	c	from "-----400 cycles." to "-----350 cycles."
62	d, line 2	from "binding posts of 400 $\pm$ 1 cycles" to "binding posts of 350 $\pm$ 1 cycles."
62	Par. 4-9h, frequency chart	Under <u>Switch</u> column, delete "350". Under <u>Frequency</u> column, delete "350 $\pm$ 10"
63	Par. 4-10a	Add at beginning of Par: 'Operate the "TEST" switch to position 0 and set the filament variac to the middle of its range by adjusting the "ADJ" knob and observing the meter of the test set. Return the "TEST" switch to position 1.'

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Additional ERRATA:(continued)

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63	d, line 2	from "should read below 75-----" to "should read below 80-----"
64	Par. 4-11e, line 3	From "should stay between 19 and 37 volts" to "should stay above 19 volts."
65	Table 4-2, test 4-9d	From "400 $\pm$ 1 cycles" to "350 $\pm$ 1 cycles"
67	Table 4-2, test 4-9h	From "350 $\pm$ 10" to "400 $\pm$ 10"
67	Table 4-2, test 4-10d	From "below 75" to "below 80"
67	Table 4-2, test 4-11e	From "19 to 37" to "19 or above."
107	a, line 4	From "greater than 1 millivolt" to "greater than 2 millivolts."
112	Par. 5-42c, line 2	From "This sets the L output to 150 volts" to "This bucks the meter input to read exactly on the red line."
112	d, line 2	Delete "from 150 volts"
112	d, lines 3, 4 & 5	Delete sentence beginning with "Mid-scale voltage -----", add "Mid-scale corresponds to a 35-volt change."
112	d, lines 5 & 6	From "-----4 divisions (8 parts -----" to "-----2 divisions (4 parts -----"
112	d, formula	From " $S = 140 - 1.14 E_L$ " to " $S = 118.7 - 0.53 E_L$ "
113	f, lines 2 & 3	From "-----with a mid-scale reading of 130 volts (20 volt change)." to "-----with mid-scale corresponding to a 20 volt change."
113	Par. 5-42f, formula	From " $S = 140 - 2E_L$ " to " $S = 110.4 - 0.52E_L$ "
113	h, formula	From " $S = 140 - 2 E_J$ " to " $S = 110.4 - 0.52E_J$ "
115	v, line 2	Delete "from 150 volts"

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Additional ERRATA: (continued)

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115	v, lines 3, 4 & 5	Delete sentence beginning with "Mid-scale voltage is-----"; Add "Mid-scale corresponds to a 35-volt change."
115	v, lines 5 & 6	From "-----4 divisions (8 parts -----" to "-----2 divisions (4 parts -----"
115	v, formula	From " $S = 60 \angle 1.14E_J$ " to " $S = 81.3 \angle 0.53E_J$ "
115	x, line 2	From "-----with a mid-scale reading of 170 volts (20 volt change)." to "-----with mid-scale corresponding to a 20-volt change."
115	x, formula	From " $S = 60 \angle 2E_J$ " to " $S = 89.6 \angle 0.52E_J$ "
116	Par. 5-44c, last line	From "-----R output for 17.5 input -----" to "-----R output for 0.5v null input -----"
117	f, line 3	From "-----corresponds to 0.529 volt" to "-----corresponds to 0.84 volt"
117	f, line 4	From "-----corresponds to 1.33 volts" to "-----corresponds to 2.11 volts"
117	f, formula	From " $S = 77 \angle 5.9 G_0$ " to " $S = 77 + 15.5G_0$ "
117	f, last line	From "the gain" to "the output"
118	5-44i, formula	From " $S = 56.5 \angle 149 G_{53}$ " to " $S = 56.5 \angle 630 G_{53}$ "
133	R1214	"1.0 meg." to "0.750 meg."
133	R1216	"1.43 meg." to "1.0 meg."
134	R2112	Change to: 4.99 meg. 1.0 * 5 D176176A
	R2114	1.0 meg. 1.0 * 0.7 D176176A
	R2115	1.89 meg. 1.0 * 0.3 D176176A
	After	Add: R2133 0.56 meg. 5.0 * 5 RC20GF564J
	R2132	R2134 4.99 meg. 1.0 * 5 D176176A
		R2135 4.99 meg. 1.0 * 5
		R2136 1.89 meg. 1.0 * 0.3
		R2137 1.0 meg. 1.0 * 0.7 D176176A

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Additional ERRATA: (continued)

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139	Bottom left	Delete lead from P2302-1 to S2301 - NO					
142	R2502	Delete					
	R2503	Delete					
	R2520	Change to:	1130	1.0	*	0.1	D176176A
	R2525	Delete					
	R2526	Delete					
	R2527	Delete					
	R2529	Delete					
	R2530	Delete					
	R2531	Delete					
	R2532	Delete					
	R2538	Delete					
	R2539	Delete					
142	After	Add:	R2545	49,900	1.0	*	5 D176176A
	2544		R2546	1,270	1.0	*	.1
			R2547	129	1.0	*	.1
			R2548	1,270	1.0	*	.1
			R2549	1.0 meg.	1.0	0.02	150
			R2550	158	1.0	*	.03
			R2551	234	1.0	*	.03 D176176A
			R2552	1,000	20	*	.5 RC20GF102M

Replacement Pages (Revised 15 March 1957):

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1 September 1956

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Figure 1-1. External View of GS-17460 Amplifier Subassembly Test Set (Case 1).

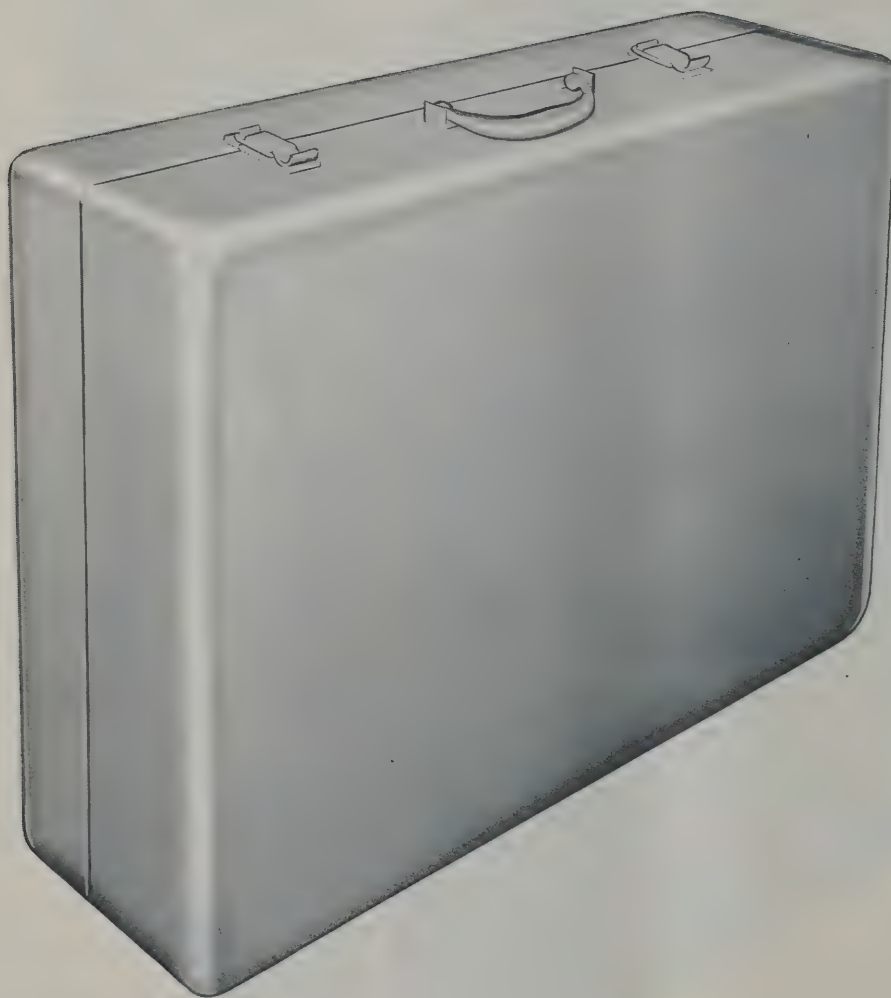
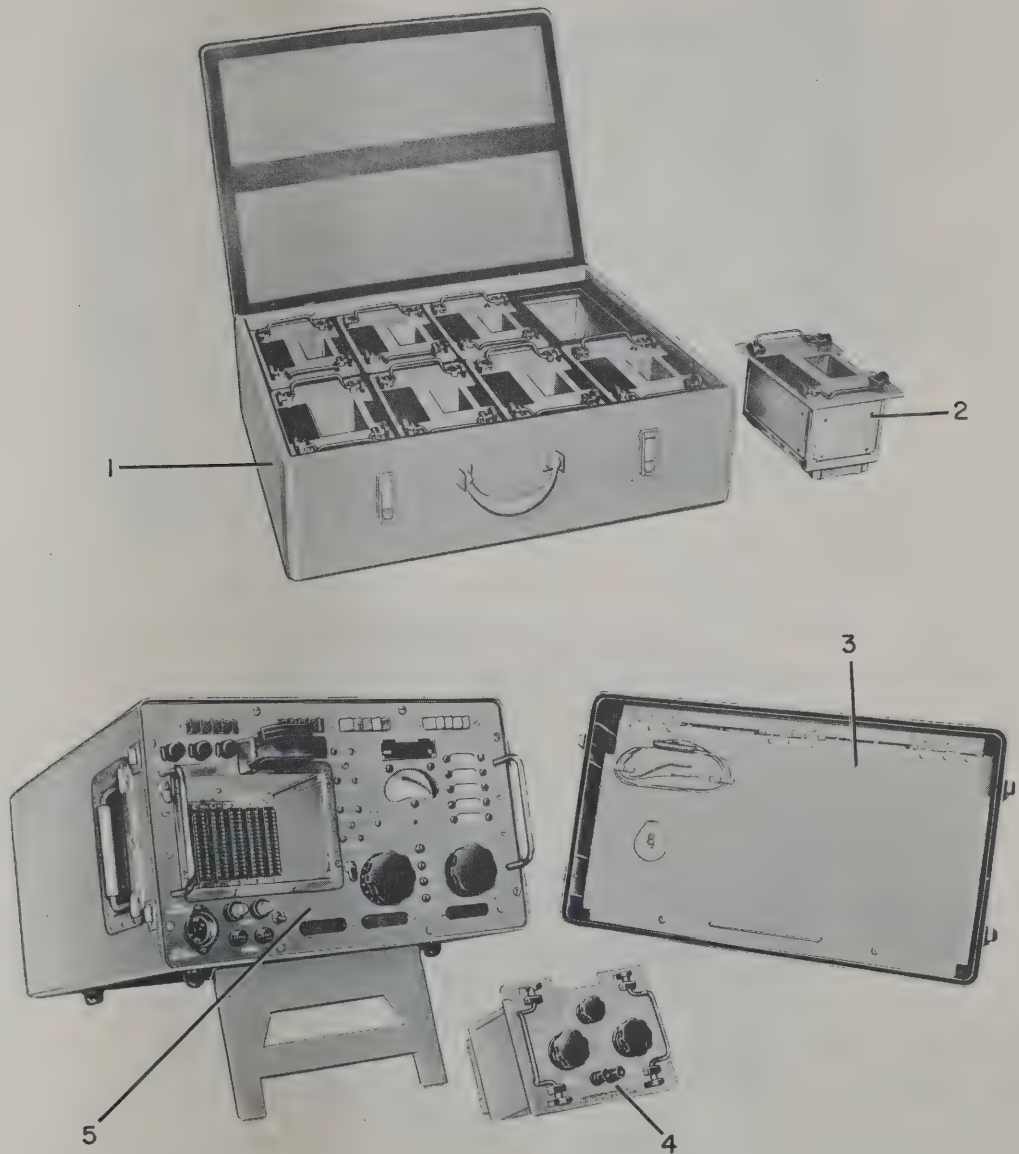


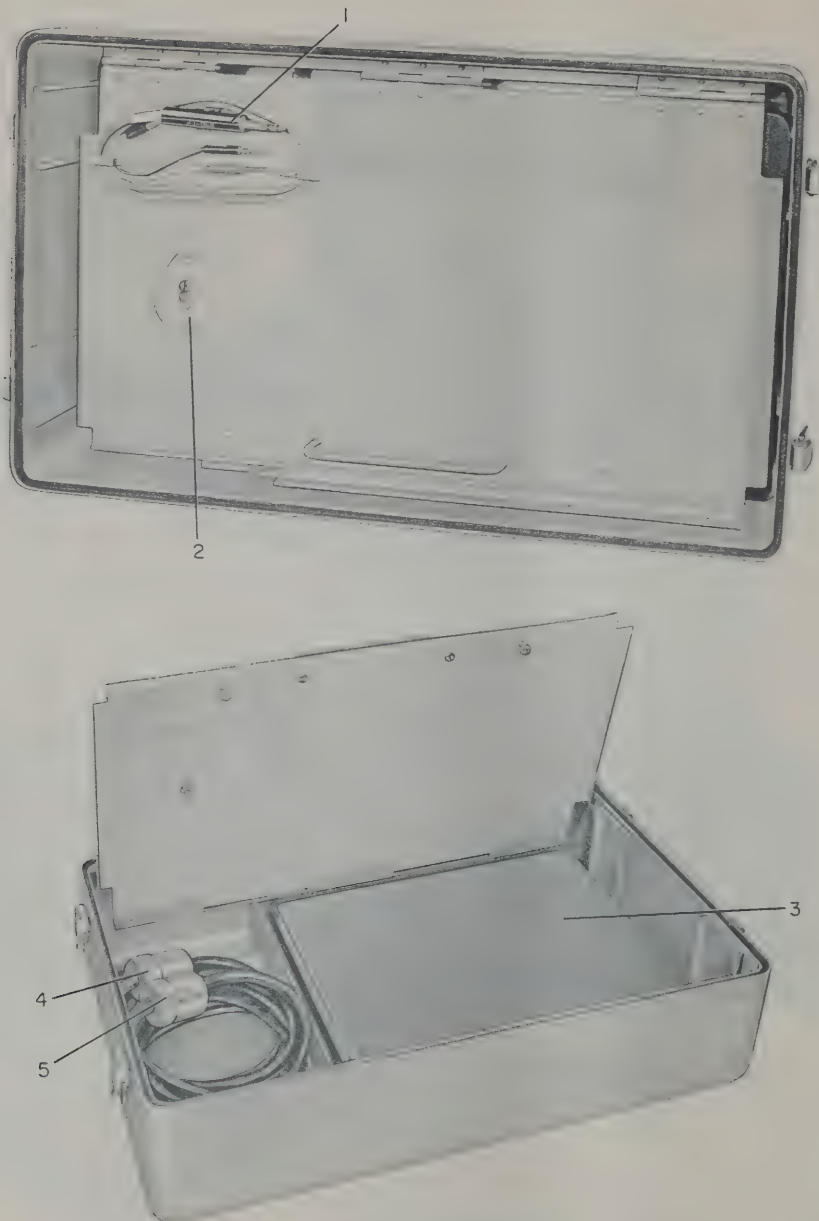
Figure 1-2. External View of GS-17470 Test Adapter Case (Case 2).



1. GS-17470 TEST ADAPTER CASE
2. TEST ADAPTER
3. COVER OF GS-17460 AMPLIFIER SUBASSEMBLY TEST SET
4. GS-17469 SWITCH BOX
5. GS-17460 AMPLIFIER SUBASSEMBLY

Figure 1-3. GS-16744 Amplifier Subassembly Test Equipment.

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT



1. G-234791 CABLE ASSEMBLY (METER)
2. G-235411 SPECIAL SHIM
3. INSTRUCTION BOOK
4. G-234790 CABLE ASSEMBLY (POWER)
5. G-254872 CABLE ASSEMBLY (SPECIAL PURPOSE)

Figure 1-4. Cover Assembly for GS-17460 Amplifier Subassembly Test Set.

Section I

GENERAL DESCRIPTION

1-1. INTRODUCTION.

1-2. The GS-16744 Amplifier Subassembly Test Equipment is special purpose equipment designed for field and depot testing of the amplifier subassemblies used in the K-5 Bombing, Navigational, Radar, and Optical System. This handbook covers the operating and servicing instructions necessary for proper operation and service of the test equipment.

1-3. The Amplifier Subassembly Test Equipment consists of various GS-items which are housed in two separate cases (figures 1-1, 1-2, and 1-3). Case 1 is a portable grey metal container which measures 25 3/8 by 19 by 12 1/8 inches and weighs approximately 86 pounds. Case 2 is a portable grey metal container which measures 23 13/16 by 19 13/32 by 7 13/16 inches. This case weighs approximately 50 pounds when loaded with the eight test adapters it is designed to carry.

1-4. FUNCTION.

1-5. There are eight different types of potted and sealed amplifiers used in the K-5 System. Each amplifier contains one or more vacuum tubes and, in the case of tube or component failure, the whole amplifier must be discarded and replaced. The Amplifier Subassembly Test Equipment provides facilities for an amplifier unit to be plugged in and checked. The test equipment yields an indication of the quality of the unit under test in a manner similar to that of a tube checker. However, unlike a tube checker, all voltages are preselected by the equipment so that there is no possibility of accidental damage due to incorrect switch positioning. It can be operated by servicing personnel with little or no training or experience and gives a simple go — no-go meter check of these amplifiers.

1-6. EQUIPMENT SUPPLIED.

1-7. GS-items that are a part of and are included in the two cases of GS-16744 Amplifier Subassembly Test Equipment are listed in table 1-1.

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

TABLE 1-1
EQUIPMENT SUPPLIED AS PART OF GS-16744
AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

Quantity Per Equipment	Name of Unit	Western Electric Designation	Location	Dimensions in inches	Weight
1	Amplifier Subassembly Test Set, including three items below: (1) G-234790 Cable Assembly (Power) (2) G-234791 Cable Assembly (Meter) (3) G-235411 Special Shim	GS-17460	Case 1	25 3/8 x 19 1/4 x 12 1/8	85 lb. 8 oz.
1	Test Adapter	GS-17461	Case 2	8 x 5 11/16 x 5 7/8	3 lb. 12 oz.
1	Test Adapter	GS-17462	Case 2	8 x 5 11/16 x 5 7/8	3 lb. 12 oz.
1	Test Adapter	GS-17463	Case 2	8 x 5 11/16 x 5 7/8	3 lb. 10 oz.
1	Test Adapter	GS-17464	Case 2	8 x 5 11/16 x 5 7/8	3 lb. 12 oz.
1	Test Adapter	GS-17465	Case 2	8 x 5 11/16 x 5 7/8	4 lb. 9 oz.
1	Test Adapter	GS-17466	Case 2	8 x 5 11/16 x 5 7/8	3 lb. 12 oz.
1	Test Adapter	GS-17467	Case 2	8 x 5 11/16 x 5 7/8	3 lb. 8 oz.
1	Test Adapter	GS-17468	Case 2	8 x 5 11/16 x 5 7/8	4 lb. 5 oz.
1	Switch Box	GS-17469	Case 1	8 x 5 11/16 x 6 1/4	3 lb. 15 oz.
1	Test Adapter Case (Case 2)	GS-17470		23 13/16 x 19 13/32 x 7 13/16	18 lb. 8 oz.

1-8. EQUIPMENT REQUIRED BUT NOT SUPPLIED.

-9. In addition to the equipment listed in table 1-1, there is an optional piece of test equipment that may be used for testing the amplifier subassemblies. A milliammeter with a range of 0 to 50 milliamperes should prove helpful in investigating malfunctioning of these packaged units. When used for this purpose the milliammeter may be connected to the GS-17460 Test Set to provide measurements of the total current consumption of the individual amplifier subassemblies and their associated circuit elements in the test adapters. (Refer to section III.) The meter is connected to the test set by the G-234791 Meter Cable Assembly (figure 1-4).

1-10. POWER REQUIREMENTS.

1-11. Power for operating the GS-16744 Amplifier Subassembly Test Equipment is connected to the unit through the G-234790 Power Cable Assembly (figure 1-4). The test equipment requires approximately 350 watts of single phase, 115 volt, 380 to 420 cycle power for operation.

1-12. DETAILED DESCRIPTION.

1-13. The basic unit of this test equipment is the GS-17460 Amplifier Subassembly Test Set (5, figure 1-3 and figure 5-5). In addition to the basic unit there are eight test adapters (2, figure 1-3), a switch box (4) and a carrying case (1). This equipment provides the necessary facilities for testing the GS-15416, GS-15418, GS-15420, GS-15433, GS-15434, GS-15490, and GS-16697 Amplifier Subassemblies and the GS-16451 Signal Comparator.

Note

Throughout the text the amplifier subassemblies and the signal comparator are frequently referred to as "packages" or "packaged amplifiers".

1-14. The GS-17460 Test Set contains the power supplies, an audio oscillator, DC and AC vacuum tube voltmeters and appropriate controls and switching circuits for testing the amplifier "packages". The test set is housed in case 1. Removal of the top cover of case 1 exposes the front panel of the test set for operation. The

unit may be operated in any one of three positions. It may be operated in a vertical position, where space is limited—such as in an aircraft aisle—or it may be mounted either horizontally or tilted for bench test operation. A stand (figure 1-1), hinged to the side of the case, provides a tilt angle of approximately 25° from the test bench. This elevates the lower edge of the test set front panel approximately eight inches above the bench.

1-15. Each of the eight adapters, one for each amplifier subassembly, contains a receptacle into which the package to be tested may be placed; it also contains patch board connections and precision voltage dividers which determine the tests to be performed and the limits to be met. Facilities are provided on the front panel of the GS-17460 Test Set for inserting appropriate adapters, and a clamp is provided to hold the package under test in firm contact with the adapter to provide good heat transfer. Clamping dogs (15, figure 2-1) are provided to retain the adapter when the packages are pulled out after test. Listed below are the GS-numbers of the adapters with the subassemblies to which they mate.

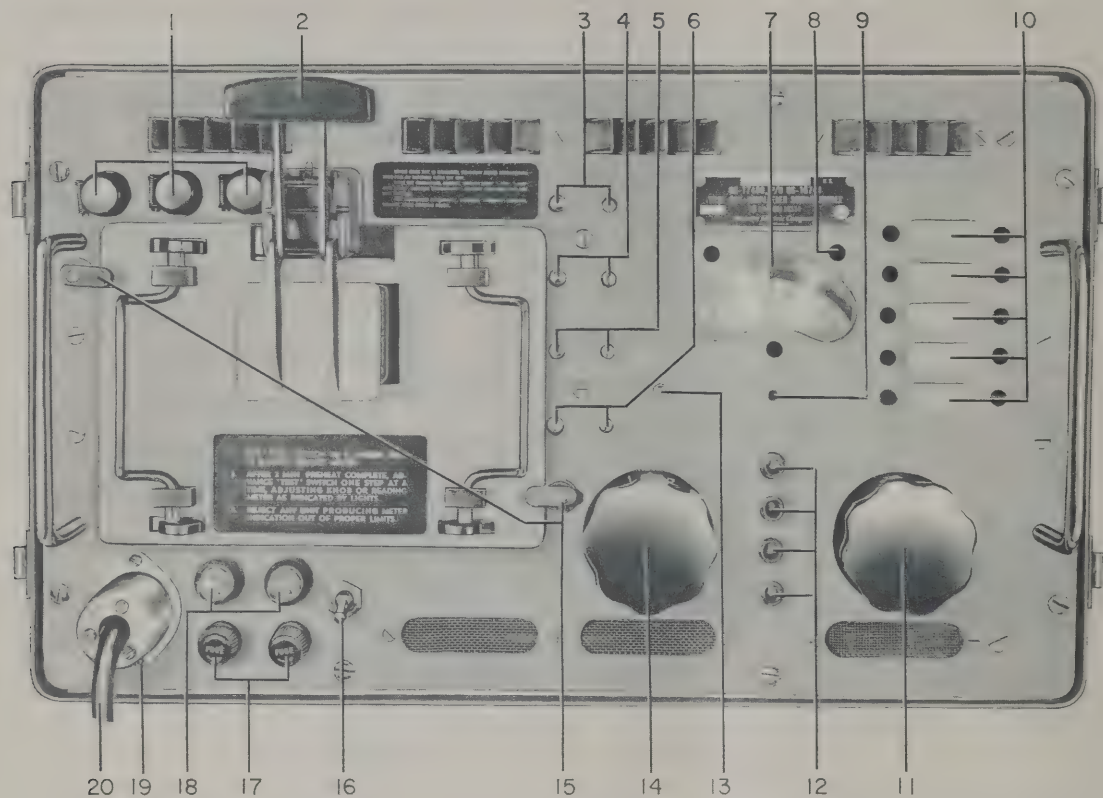
<u>Test Adapter</u>	<u>Amplifier Subassembly</u>
GS-17461	GS-15434
GS-17462	GS-16697
GS-17463	GS-15490
GS-17464	GS-15418
GS-17465	GS-15416
GS-17466	GS-15420
GS-17467	GS-15433
GS-17468	GS-16451

1-16. The switch box, GS-17469, is a field maintenance test device which may be inserted in the GS-17460 Test Set in place of one of the test adapters. Through the proper use of this unit, all important test functions of the GS-17460 Test Set may be checked and adjusted. The switch box (4, figure 1-3) is normally stored with the GS-17460 Test Set in case 1.

1-17. Included in case 1 with the GS-17460 Test Set and the switch box are three additional items: the meter and the power cable assemblies (previously discussed in paragraphs 1-8 through 1-11) and a G-235411 Special Shim (figure 1-4) for adjusting the magnetic clutches of the test set.

1-18. The GS-17470 Case is a carrying case for the eight test adapters supplied as part of the GS-16744 Test Equipment. A suitcase-type handle is provided for carrying this case.

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT



- | | |
|---|---------------------------|
| 1. JACKS FOR CURRENT MEASUREMENT | 11. "ADJUST" CONTROL KNOB |
| 2. TOGGLE CLAMP | 12. INDICATOR LIGHTS |
| 3. "ADJUST ZERO" PUSHBUTTON AND POTENTIOMETER | 13. "VIRBRATE" BUTTON |
| 4. "ADJUST -150" PUSHBUTTON AND POTENTIOMETER | 14. "TEST" SWITCH |
| 5. "ADJUST +150" PUSHBUTTON AND POTENTIOMETER | 15. CLAMPING DOGS |
| 6. "ADJUST +300" PUSHBUTTON AND POTENTIOMETER | 16. POWER SWITCH |
| 7. METER | 17. SPARE FUSES |
| 8. METER LIGHT | 18. FUSES AND FUSE LIGHTS |
| 9. METER CORRECTOR ADJUSTMENT SCREW | 19. POWER INPUT JACK |
| 10. ILLUMINATED LABELS | 20. POWER CABLE |

Figure 2-1. Front Panel View of GS-17460 Amplifier Subassembly Test Set with Typical Test Adapter Inserted.

Section II

OPERATION

2-1. GENERAL

2-2. For a front panel view of the GS-17460 Test Set with a test adapter and package properly inserted, refer to figure 2-1. A multiposition "TEST" switch and an "ADJUST" control knob are the most frequently used controls on the unit. In addition to these two controls, other items on the front panel which are frequently used or referred to in normal operation include: a meter and meter corrector, four indicator lights, five illuminated labels, four pushbuttons with associated screw-driver adjustments, a vibrator pushbutton, and a toggle clamp. Other items on the front panel less frequently used include: a power input jack, two fuses, two spare fuses, a power switch, three jacks for current measurements, a receptacle for the test adapters, and two clamping dogs for holding the adapters in the test set.

2-3. The multiposition "TEST" switch (14) is the master control switch on the test set. The switch has a zero position and 17 testing positions. It makes all of the input and output connection changes required to test the packaged amplifiers.

2-4. The "ADJUST" control (11) is the master control knob and is used to make all adjustments required during package testing.

2-5. The meter (7) provides a go — no-go reading for each of the individual package tests. It is scaled from 60 to 140 divisions. A yellow zone extends downward from 100 divisions and a blue zone extends upward from 100 divisions. An overlapping green zone falls between the 90 and 110 scale divisions and a red line marked "ADJUST LEVEL" falls directly on the 100 scale mark. All reference settings are made by rotating the "ADJUST" knob to adjust the meter pointer to coincide with the red line.

2-6. Maximum meter accuracy is attained through the use of the "VIBRATE" button (13). When depressed, the button energizes a motor vibrator mounted on the meter assembly and reduces any tendency of the meter to stick.

2-7. Four indicator lights (12), located between the "TEST" switch and "ADJUST" control knob, light during test and indicate the color zone in which the meter pointer should indicate.

2-8. Five illuminated labels (10), located to the right of the meter, light during test to provide operating instructions. These instructions are as follows: "PREHEAT 2 MIN", "REPEAT 1-2 AS REQ.", "REPEAT 1-15", "SPECIAL TEST", and "TEST COMPLETE".

2-9. The toggle clamp (2) is used to hold the packages in firm contact with the test set for proper heat transfer.

2-10. The two clamping dogs (15) are used to retain the adapter in the test set when the packages are removed after test. These dogs are used when several packages of the same type are being tested in succession.

2-11. Power for operating the unit is connected to the "115V 1Ø, 380-420 CY" power input jack (19) through the G-234790 Power Cable Assembly (20). Both leads of the 115-volt AC input are fused with 4-ampere fuses (18) mounted adjacent to the input jack. A blown fuse is indicated by a small light in the fuse cap. The unit is placed in operation by turning the power switch (16) to "ON".

2-12. The meter pointer is mechanically adjusted by means of the meter corrector adjustment (9) located just below the meter.

2-13. Four "ADJUST" pushbuttons (3, 4, 5, and 6) with their associated screwdriver adjusted potentiometers provide a means of checking and adjusting the meter zero and all power supply voltages of the test set.

2-14. Three test jacks (1) enable measurement of the current consumption of the package and the adapter for investigative purposes.

2-15. In addition to the controls etc. on the front panel of the test set, some adapters have a "PUSH TO RETEST" button (1, figure 2-2). This switch is present on those adapters which are used to test packages with two identical channels. It is used only in those cases where the operator wishes to go back and retest the number

1 channel of the package without waiting for the "PREHEAT 2 MIN" delay interval. If this switch were not available, the test set would remain connected to the number 2 channel until the package under test is changed. To remeasure the same package it would therefore be necessary for the package to be removed and reinserted in order to restore the adapter and test set to channel 1 operation. The "PUSH TO RETEST" button should be operated at switch position 0 or 1 whenever channel 1 readings are to be re-examined.

2-16. OPERATION.

2-17. In the following procedure it is assumed that an operating and monthly maintenance check as outlined in section IV has been made and the test set is in operating condition. Proceed as follows:

a. Connect the test set to a 115 volt, 380-420 cycle power source with the G-234790 Power Cable and turn the power switch to "ON" (4, figure 2-2). Observe the meter pointer. In about 1 minute the pointer should come up to approximately mid-scale.

b. Read the GS-number of the package to be checked and select the appropriate mating adapter. Insert the adapter into the test set.

TABLE 2-1	
Amplifier Subassemblies with Mating Test Adapters	
Package	Test Adapter
GS-15434	GS-17461
GS-16697	GS-17462
GS-15490	GS-17463
GS-15418	GS-17464
GS-15416	GS-17465
GS-15420	GS-17466
GS-15433	GS-17467
GS-16451	GS-17468

c. Insert the package into the test adapter and clamp it with the toggle clamp (2, figure 2-2). If desired, tighten the two clamping dogs. (Refer to subparagraph h.)

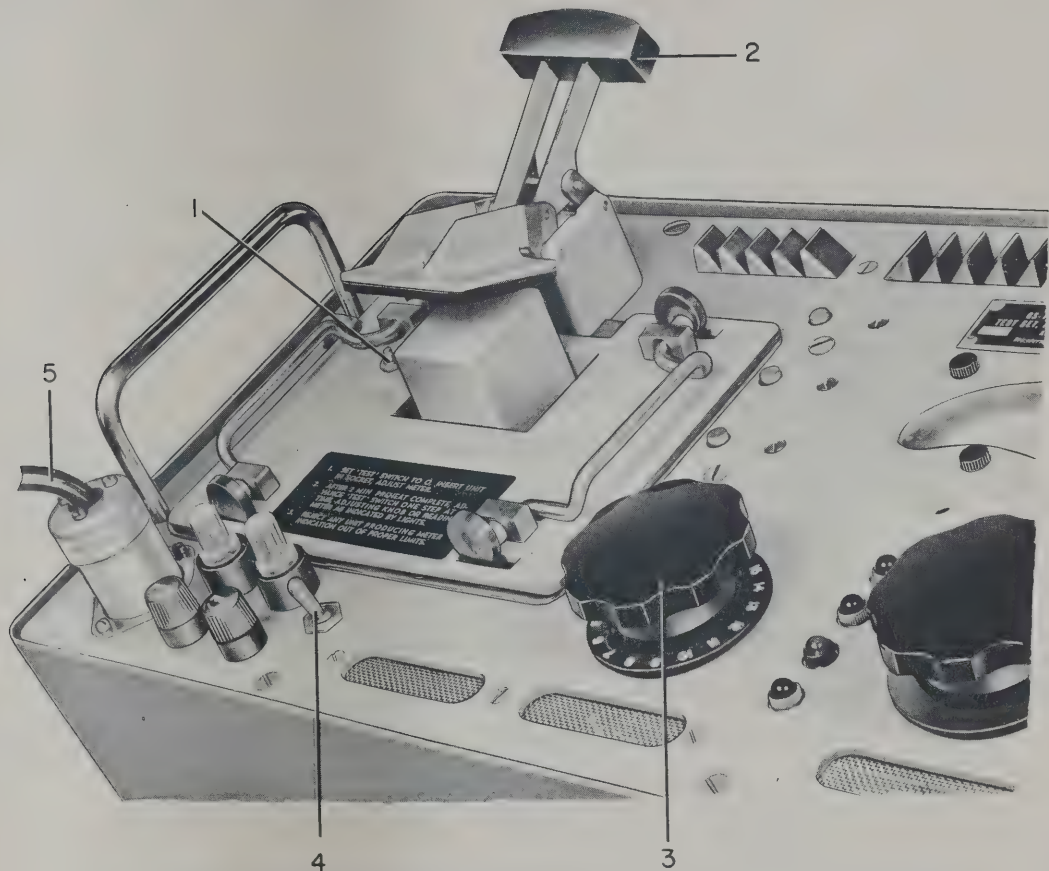
d. Turn the "TEST" switch (3, figure 2-2) to "0". The "PREHEAT 2 MIN" label should light, and the meter should give a red-line reading. If it does not, set the "ADJUST" control for a red-line reading. This adjusts the filament voltage for the package under test to 6.3 volts.

e. During the two-minute warm-up period the power supply voltages and vacuum tube voltmeter zero should be checked. (Refer to metal decal on front panel.) Depress the "ADJUST ZERO" button and adjust the associated screwdriver adjustment for a red-line meter reading. Repeat this procedure for the "ADJUST -150", "ADJUST +150", and "ADJUST +300". (The -150 volt supply should be adjusted first since it is an independent voltage reference.) The voltage adjustments affect the zero adjustment so that the procedure should be repeated until all readings are properly adjusted to the red line.

f. Recheck the filament voltage adjustment, subparagraph d, and if necessary reset it to the red line. When the test set has been operating for one-half hour or longer, the -150, +150, and +300 volt supplies should require no further adjustment. The "ADJUST ZERO", however, should be checked and if necessary readjusted before testing each package. When the test set has just been turned on, it may be necessary to check the "ADJUST ZERO" more frequently until it stabilizes.

NOTE

The test set may be used horizontally, vertically, or tilted. The "at rest" position of the meter pointer varies with such tilt changes. The "ADJUST ZERO" control compensates for these meter shifts for all meter readings during amplifier testing and for "ADJUST +150" and "ADJUST +300" readings. The "ADJUST -150" reading, however, is not affected by the "ADJUST ZERO" front panel control; and therefore, to achieve a proper -150 volt setting, the mechanical corrector screw of the meter must be adjusted to compensate for the effects of case tilt. This is accomplished by adjusting the meter for a scale reading of 60 with the test set turned off.



1. "PUSH TO RETEST"
2. TOGGLE CLAMP
3. "TEST" SWITCH
4. POWER SWITCH
5. G-234790 POWER CABLE

Figure 2-2. Partial Front Panel View of Test Set Showing Two-Channel Package and Test Adapter Inserted.

g. When the preheat period has elapsed, the "PREHEAT 2 MIN" label extinguishes. Advance the "TEST" switch one step at a time, adjusting the controls or reading the meter as indicated by the illuminated labels or lights. (Refer to metal decal on the adapter.) At each step of the "TEST" switch one of the four colored lights or one of the labels illuminates. If the green, yellow, or blue light is on, the meter should indicate in the green, yellow, or blue zone respectively. If the red light is on, the meter pointer should either already indicate on the red line or the adjust knob should be adjusted to give a red-line reading. Failure to obtain the proper meter indication represents a failure of the package to meet its test requirement and the package should therefore be rejected.

NOTE

For all of the readings obtained above, the "VIBRATE" button may be used to overcome the inherent stickiness of the ruggedized meter. When the "VIBRATE" button is pushed, the meter pointer is being vibrated and its indication may be slightly altered; however, when the button is released the vibration stops and the pointer settles to a uniform consistent level. Therefore, the "VIBRATE" button should be used whenever maximum reading accuracy is required. Without its use the error may be as much as two meter scale divisions. Of course, if the meter pointer is more than two divisions inside of the desired limits (blue, green, or yellow), use of the vibrator is unnecessary.

On some of the step positions the labels illuminate instead of one of the four colored lights. Follow the operating requests of the label. For instance, when the "REPEAT 1-15" label lights, the operator should rotate the switch again to position 1 and repeat the step-by-step rotation through step 15 for a second time. This puts the package through a series of identical tests as before except this time the second channel of a two-channel package is being tested. The "REPEAT 1-2 AS REQ" label also requires the operator to go back for a recheck of positions 1 and 2; however, the reason for doing this is because positions 1 and 2 are mutually interactive adjustments and may have to be repeated a number of times until both requirements are

simultaneously met. When steps 1 and 2 no longer require adjustment, the "REPEAT 1-2 AS REQ" label should be ignored and the operator should go on to subsequent tests until the test is completed.

NOTE

If, at any time while testing the number 2 channel of a two-channel package, the operator wishes to go back and retest the number 1 channel, the "PUSH TO RETEST" button (1, figure 2-2) should be operated with the "TEST" switch set at position 0 or 1.

h. If only one package of a type is to be checked at this point, remove the adapter from the test set and return it to the case. If many packages of one type are to be tested be sure the adapter is clamped to the test set. It is not only inconvenient to have the adapter come loose from the test set as the package is being removed from the adapter, but it also causes unnecessary wear on the adapter blue ribbon connectors. The clamping dogs (15, figure 2-1) should be used to retain the adapter firmly in the test set for as long as required to test all packages of the same type.

2-18. Testing of all packages consists of repetition of the procedure give above. A simplified version of the operating procedure is repeated below:

- a. Connect power to the test set and turn the power switch to "ON".
- b. Select the correct adapter for the package and place it in the test set.
- c. Insert and clamp the package.
- d. Turn the "TEST" switch to "O".
- e. Observe that the "PREHEAT 2 MIN" light comes on.
- f. Recheck the zero and power supply adjustments.
- g. Set the filament voltage by adjusting the "ADJUST" knob for a red-line meter reading.
- h. When the "PREHEAT 2 MIN" light extinguishes, go through all of the tests on the package.

2-19. In order to assist the tester in determining the specific test on which a package fails, the types of tests performed on the packages are listed in table 2-1 together with the color of the indicator light which comes on during the test. By use of the table, packages which fail a test may be tagged and records may be kept on the frequency and cause of failure. As an example of how the table is used, assume that the A channel of a GS-16697 Amplifier Subassembly is being checked on the test set and that the package fails step 7. A check of table 2-1 reveals that the test set meter should read in the yellow zone, and since it failed to do this, the package has failed to meet the 45-volt DC gain test on channel A. In table 2-1, all tests on the package are listed in capital letters while those adjustments which are independent of the package are listed in parenthesis and lower case letters.

2-20. For detailed information of each individual test refer to Section V, paragraphs 5-31 through 5-48.

2-21. THEORY OF OPERATION.

2-22. GENERAL. The GS-17460 Test Set is the basic unit of the GS-16744 Test Equipment. It contains a G-233957 Power Supply, a G-234543 Oscillator Amplifier, and appropriate controls and switching circuits. In addition, the unit contains DC and AC vacuum tube voltmeters, the amplifier portion of which is mounted on the same chassis with the G-234543 Oscillator Amplifier. Into the GS-17460 Test Set are plugged eight test adapters, one for each of the package amplifiers to be tested. The adapters contain patchboard connections and precision voltage dividers which determine the tests to be performed on the packages and the limits that must be met.

2-23. The G-233957 Power Supply (figures 5-1 and 5-21) supplies all regulated +300V, +150V, and -150V power requirements for the GS-16744 Amplifier Subassembly Test Equipment including current drain of packages under test. In addition, the power supply furnishes +28V DC and 3V AC power for control purposes and 6.3V AC power for the filament supply.

2-24. The G-234543 Oscillator Amplifier (figures 5-1 and 5-20) consists of an RC audio oscillator packaged on the same chassis with the amplifier portion of an AC

R SUBASSEMBLY TEST EQUIPMENT

ADAPTER No.
PACKAGE No.GS-17461
GS-15434-17466
-15420GS-17467
GS-15433GS-17468
GS-16451

STEP		Ch				
1	R BAL	R BAL	input)	G DC OUTPUT	R BAL	
2	R BIAS	R BIAS	AIN	R BAL	R (AC input)	
3	- (repeat 1 and 2)	- (repeat 1 and 2)	readjust)	G +DC GAIN	R (P record)	
4	Y +DC GAIN D	G BIAS VOLT	0 SUM	G -DC GAIN	R CHANGE P	
5	B +DC GAIN E	B 10V GAIN	3V SUM	Y AC GAIN	G TEST P	
6	R (D record)	G DC SUM	8.4V SUM	- (test complete)	R CHANGE W	
7	G +DC DIFF D-E	B 45V GAIN	53V SUM		G TEST W	
8	Y -DC GAIN E	G DC SUM	132V SUM		R CHANGE V	
9	B -DC GAIN D	R AC OUT	E, SUM		G TEST V	
10	R (E record)	G AC GAIN	SE, 0 SUM		- (test complete)	
11	G -DC DIFF E-D	R (AC complete)				
12	R AC OUTPUT	R (AC				
13	G AC GAIN	G LOW RES				
14	R (AC record)	R (AC				
15	R (AC readjust)	G HIGH RES				
16	G FREQ RESPONSE	- (repeat 1 time)				
17	- (test complete)					

2-19. In order to assist the tester in determining the specific test on which a package fails, the types of tests performed on the packages are listed in table 2-1 together with the color of the indicator light which comes on during the test. By use of the table, packages which fail a test may be tagged and records may be kept on the frequency and cause of failure. As an example of how the table is used, assume that the A channel of a GS-16697 Amplifier Subassembly is being checked on the test set and that the package fails step 7. A check of table 2-1 reveals that the test set meter should read in the yellow zone, and since it failed to do this, the package has failed to meet the 45-volt DC gain test on channel A. In table 2-1, all tests on the package are listed in capital letters while those adjustments which are independent of the package are listed in parenthesis and lower case letters.

2-20. For detailed information of each individual test refer to Section V, paragraphs 5-31 through 5-48.

2-21. THEORY OF OPERATION.

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2-23. The G-233957 Power Supply (figures 5-1 and 5-21) supplies all regulated +300V, +150V, and -150V power requirements for the GS-16744 Amplifier Subassembly Test Equipment including current drain of packages under test. In addition, the power supply furnishes +28V DC and 3V AC power for control purposes and 6.3V AC power for the filament supply.

2-24. The G-234543 Oscillator Amplifier (figures 5-1 and 5-20) consists of an RC audio oscillator packaged on the same chassis with the amplifier portion of an AC

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

TABLE 2-2.
STEP-BY-STEP TESTS AND OPERATIONS

NOTE
Items in parenthesis and lower case letters are adjustments independent of the package under test.

ADAPTER No. PACKAGE No.	GS-17461 GS-15434	GS-17462 GS-16697	GS-17463 GS-15490	GS-17464 GS-15418	GS-17465 GS-15416	GS-17466 GS-15420	GS-17467 GS-15433	GS-17468 GS-16451
STEP		Channel AChannel B			Channel AChannel B			
1	R BAL	R BALR BAL	Y NOISE	Y INTERNAL PICKUP	G OUTPUT L G OUTPUT J	R (AC input)	G DC OUTPUT	R BAL
2	R BIAS	R BIASR BIAS	R (AC input)	R (AC input)	R BAL L R BAL J	G AC GAIN	R BAL	R (AC input)
3	- (repeat 1 and 2)	- (repeat 1 and 2)- (repeat 1 and 2)	G AC OUTPUT fine	G OPEN LOOP GAIN	Y +DC GAIN L B +DC GAIN J	R (AC readjust)	G +DC GAIN	R (P record)
4	Y +DC GAIN D	G BIAS VOLT G BIAS VOLT	B AC OUTPUT coarse	B LIMITING	R (AC input) R (AC input)	G AVC, 0 SUM	G -DC GAIN	R CHANGE P
5	B +DC GAIN E	B 10V DC GAIN A-B B 10V DC GAIN B-A	Y NOISE WITH COARSE INPUT	Y SING	Y +AC & DC GAIN L B +AC & DC GAIN J	G AVC, 3V SUM	Y AC GAIN	G TEST P
6	R (D record)	G DC SUM A+B G DC SUM A+B	R OUTPUT LEVEL	Y NOISE	R BAL J R BAL L	G AVC, 2.4V SUM	- (test complete)	R CHANGE W
7	G +DC DIFF D-E	B 45V DC GAIN A-B B 45V DC GAIN B-A	R (bridge amplitude)	- (test complete)	Y -AC & DC GAIN J B -AC & DC GAIN L	G AVC, 53V SUM		R TEST W
8	Y -DC GAIN E	G DC SUM A+B G DC SUM A+B	G PHASE SHIFT		Y AC LIMITING L Y AC LIMITING J	G AVC, 132V SUM		R CHANGE V
9	B -DC GAIN D	R AC OUTPUT A R AC OUTPUT B	- (test complete)		Y NOISE HI L Y NOISE HI J	Y NOISE, 150V SUM		G TEST V
10	R (E record)	G AC GAIN A G AC GAIN B			Y NOISE LO L Y NOISE LO J	Y NOISE, 0 SUM		- (test complete)
11	G -DC DIFF E-D	R (AC record) R (AC record)			R AC OUTPUT L R AC OUTPUT J	- (test complete)		
12	R AC OUTPUT	R (AC readjust) R (AC readjust)			R (AC record) R (AC record)			
13	G AC GAIN	G LOW FREQ RESPONSE A G LOW FREQ RESPONSE B			R (AC readjust) R (AC readjust)			
14	R (AC record)	R (AC readjust) R (AC readjust)			G FREQ RESPONSE L G FREQ RESPONSE J			
15	R (AC readjust)	G HIGH FREQ RESPONSE A G HIGH FREQ RESPONSE B			- (repeat 1 to 15) - (test complete)			
16	G FREQ RESPONSE	- (repeat 1 to 15) - (test complete)						
17	- (test complete)							

and a DC vacuum tube voltmeter circuit. The audio oscillator section operates at 35, 50, 100, 200, 350, 400, and 850 cycles as controlled by 28V d-c switching relays. As required, anyone of these seven audio frequencies may be applied to the packages for testing purposes. The DC vacuum tube amplifier section is a balanced input DC amplifier designed to produce a DC meter indication proportional to the difference of the inputs to the amplifier. The AC vacuum tube amplifier section is a sensitive amplifier - detector circuit. It is designed to provide an output that can be connected to the DC amplifier and meter combination so that the combination may serve as an AC vacuum tube voltmeter.

2-25. Other components of the GS-17460 Test Set include variable potentiometers, rheostats, transformers, and appropriate fixed dividers, ratiometer circuits, etc., necessary to perform required measurements. These components are principally attached to the front panel and to the deck (figures 5-1 and 5-19) located six inches below the front panel. These, as well as circuits performing interconnecting functions and power distribution, are discussed in paragraphs 2-50 through 2-54.

2-26. The over-all circuit operation of the GS-16744 Test Equipment is best explained by examination of the results of the interrelation of test adapter and test set circuitry. The test adapter, when inserted into the test set, makes available to the tester a group of individual circuit arrangements which may be selected one at a time by rotation of the "TEST" switch. Each circuit is designed to test a particular electrical characteristic of the package under test. The description of the test operation consists of a description of each of these testing circuits. There are, however, only five basically different measurement circuit techniques. With minor variations, each basic circuit combination is repeated and reused in many applications. One typical test path of each basic circuit combination used by this equipment is described in detail. These explanations may be used to trace other similar circuits through the adapter and test set and are given below in paragraphs 2-55 through 2-67.

2-27. G-233957 POWER SUPPLY. The G-233957 Power Supply is a combined rectifier and regulator. (Refer to figure 5-21.) It is supplied with 115 volts, 380 to 420 cycles at 3 amperes and delivers the following voltages: regulated +300V DC at a maximum

of 150 milliamperes; regulated +150 DC at a maximum of 50 milliamperes; regulated -150V DC at a maximum of 25 milliamperes; +28V DC at a maximum of 0.5 amperes; 6.3V AC at a maximum of 10 amperes; and 3.0V AC at a maximum of 1.2 amperes.

2-28. The regulated DC voltages are used to supply both the plate and bias voltage requirements of the GS-16744 Amplifier Subassembly Test Equipment including the package under test, and also to supply precision voltages for equipment measurements. The levels of these three output voltages are individually adjustable, and the circuits are arranged so that the +300 and +150 voltages accurately track the amplitude of the -150 volt output to maintain uniform ratios between these outputs.

2-29. The 115-volt 400-cycle supply is connected through pins 10 and 11 of J1201 to the primaries of transformers T1201, T1202, and T1203. Power required for operating the power supply is supplied through the secondary terminals of these three transformers.

2-30. The -150 volt supply consists of a full wave rectifier with associated regulator. The rectifier consists of transformer T1201 (secondary 6-7-8) and rectifier tube V1202. As measured between pin 4 of J1201 and plate 7 of V1208, the rectifier has an output of 325 volts. Filtering by inductor L1202 and capacitors C1202 and C1203 reduces ripple on this output to approximately 0.6 volts. The level of the -150 volt output at pin 4 of J1201 is controlled by regulator tube V1208. With the output voltage at -150 volts, approximately +175 volts is supplied to the plate of V1208. Tubes V1206, V1207, V1208, and associated circuitry constitute a conventional gas tube voltage regulator. The overall DC gain from V1207, pin 2 to V1208, pin 7 is approximately 300. Voltage at pin 2 of V1207, and hence the level of the -150 volt output, is determined by the setting of the "ADJUST -150" volt potentiometer on the test set front panel.

2-31. Transformer T1201 (secondary 3-4-5) and rectifier V1201 constitute an unregulated rectifier with a nominal output voltage of 500 volts. Capacitor C1201 and

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

inductor L1201 filter this 500 volt output voltage so that ripple is reduced to approximately 2.5 volts. Tubes V1203, V1204, V1205 and associated circuitry form a conventional voltage regulator designed to hold the +300 volt output at pin 1 of J1201 in constant ratio with the -150 volt reference. Tube V1203 is operated as a non-inverting amplifier with a voltage gain of 20. Tube V1204 contributes a gain of approximately 13 (175 with V1205 out). Regulator tube V1205 is driven by tubes V1203 and V1204 so that it produces an output change of 1 milliampere per millivolt change at terminal 1 of voltage divider Z1201.

2-32. The +150 volt regulator circuit is similar to the +300 volt regulator circuit except that the output current is drawn from the +300 volt supply rather than from a separate rectifier. Supply voltage sources for the tubes are altered slightly to conform with lower voltage required by the regulator tube. Tube V1209 is a non-inverting amplifier with a gain of 20, feeding V1210 which operates with a normal gain of 13 (175 without V1211). Regulator V1211 is driven by tubes V1209 and V1210 so that it produces an output change of 1 milliampere per millivolt change of voltage on Z1202 terminal 1.

2-33. The 3V AC and +28V supplies are derived from the secondary outputs of T1202. Rectifier T1202 and CRL201 are designed to deliver at least 22 volts under all conditions of load and rectifier aging. Since the load may vary from 0 to 0.5 amperes, and rectifier resistance changes with age from 10 to 18 ohms, the output with a minimum load (meter vibrator) must be approximately 32 volts. (Open circuit would be 37.) Secondary 3-4 of T1202 supplies the three volt AC output.

2-34. The 6.3 volt AC outputs are conventional, except that one 6.3 volt winding is ungrounded to permit shifting of the effective ground point to minimize filament to cathode pickup effects in the sensitive amplifier circuits of the G-234543 Oscillator Amplifier.

2-35. G-234543 OSCILLATOR AMPLIFIER.

2-36. GENERAL. The G-234543 Oscillator Amplifier panel is located between the six-inch deck and the power supply panel (figure 5-1). It is essentially an RC audio frequency oscillator and amplifier packaged on the same chassis with the amplifier portion of a DC and AC vacuum tube voltmeter.

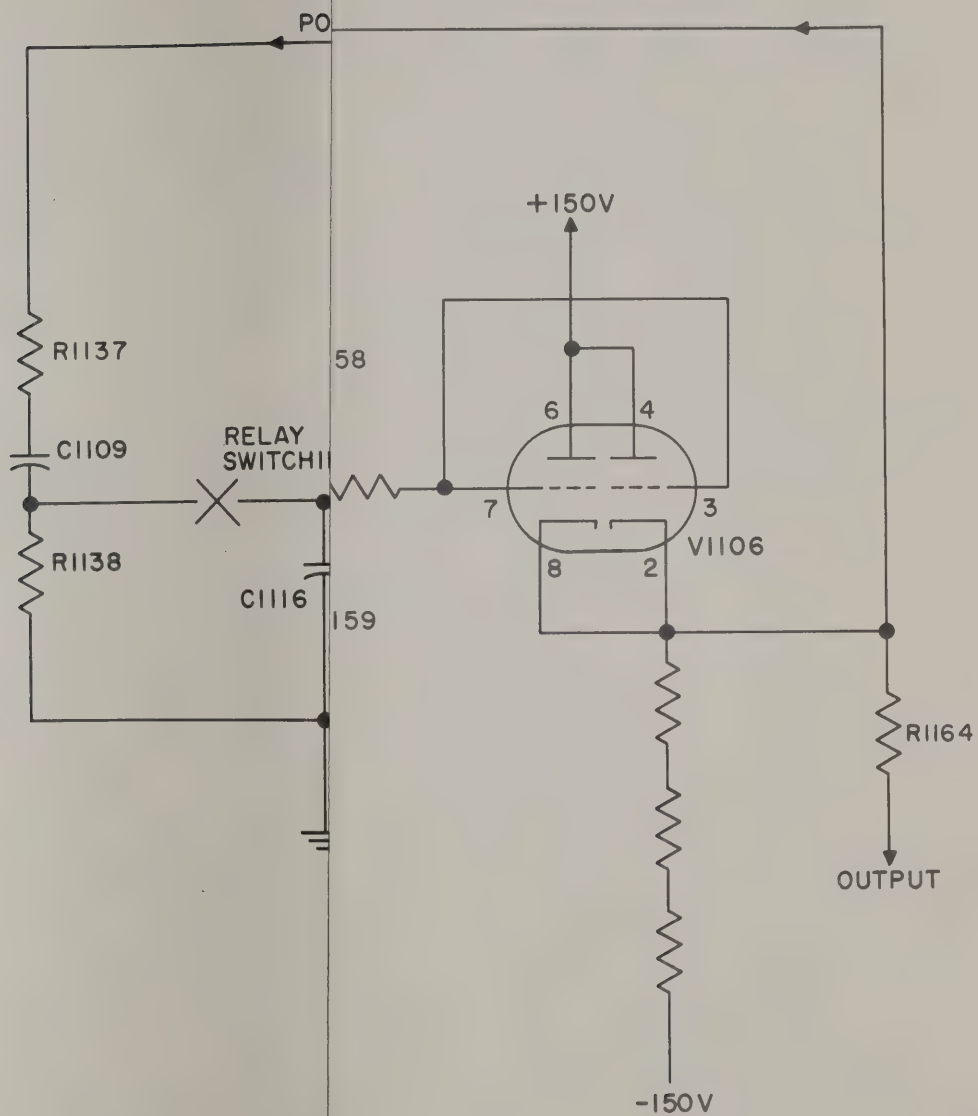
2-37. OSCILLATOR AMPLIFIER. The audio oscillator section operates at 35, 50, 100, 200, 350, 400, and 850 cycles as controlled by 28-volt DC switching relays (figure 5-20). It delivers balanced output power of up to 15 volts into 5000 ohms each phase. Output is balanced in amplitude to 1%, and the two outputs are 180 ± 1 degrees in phase relationship.

2-38. Tubes V1104, V1105, V1106 and associated circuitry form a Wien Bridge audio oscillator (figure 2-3). At the design frequency, the frequency determining resistors and capacitors have equal impedance; therefore, the series connected arm (R1137 and C1109 or equivalent) has twice the impedance of the shunt connected arm (R1138, C1116, and C1117 or equivalent). This produces a voltage on grid 7 of V1104 which is one-third of the voltage applied to the top of R1137. Since RT1101 has a nominal impedance of slightly more than twice R1155, the voltage on the cathode of V1104 has an AC level which is less than the grid 7 level so that amplification takes place in V1104.

2-39. If the frequency of the oscillator were to increase, the capacitive impedances of the bridge would decrease. The shunt arm, therefore, would drop in impedance rapidly because the lower capacitive reactance of C1116 and C1117 would shunt resistor R1138. Since the impedance of the series arm can never be less than its resistive impedance, the impedance reduction in this arm would be relatively small in proportion to that of the shunt arm. The series impedance would go up to three, four or more times the shunt impedance and the voltage on grid 7 of V1104 would become smaller, reducing the amplified signal and therefore the tendency to sustain oscillation.

2-40. Similarly, if the frequency were to decrease, the capacitive reactance would increase, the series arm would increase in impedance rapidly, and the impedance of the shunt arm would increase slowly since the total impedance could never exceed the resistor impedance. The ratio of series to shunt impedance would again go up, reducing drive and ability to oscillate. The oscillator, therefore, will seek and stabilize at the frequency of maximum voltage on grid 7 of V1104. This occurs when the series and shunt arms have their lowest ratio (2:1) which is at the design frequency.

SUBASSEMBLY TEST EQUIPMENT



Oscillator Simplified Schematic

2-37. OSCILLATOR AMPLIFIER. The audio oscillator section operates at 35, 50, 100, 200, 350, 400, and 850 cycles as controlled by 28-volt DC switching relays (figure 5-20). It delivers balanced output power of up to 15 volts into 5000 ohms each phase. Output is balanced in amplitude to 1%, and the two outputs are 180 ± 1 degrees in phase relationship.

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GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

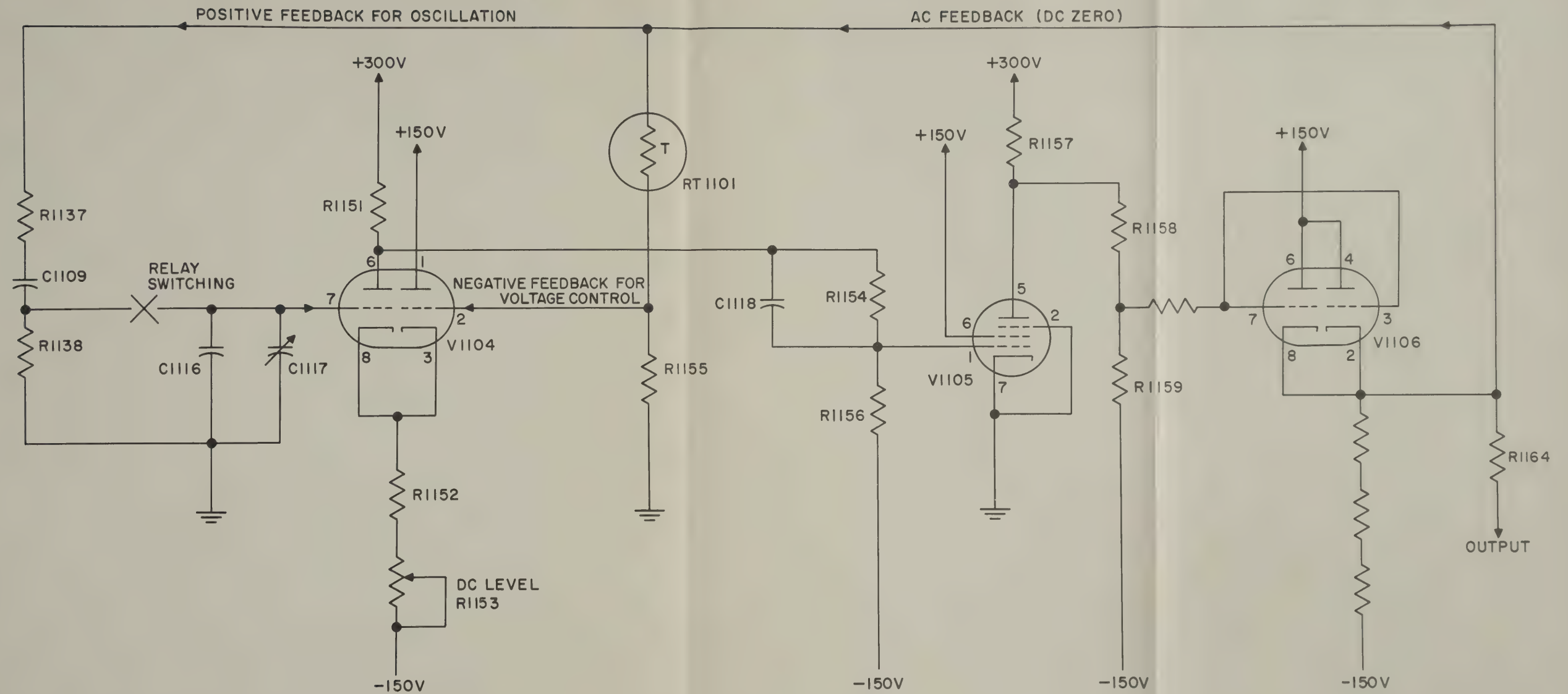


Figure 2-3. Audio Oscillator Simplified Schematic

2-41. The frequency of the oscillator is selected by actuation of relays K1101, K1102, and K1103 which connect the proper bridge arms into the circuit. Fine frequency adjustment is obtained by adjusting C1117 for the exact output frequency.

2-42. Negative amplitude control feedback is provided through thermistor RT1101. Increase in output voltage causes reduction of the resistance of RT1101 (because of negative temperature coefficient of resistivity) and more than proportional increase in AC feedback on grid 2 and cathodes 3 and 8 of tube V1104. This strong negative feedback tends to hold the output amplitude constant, independent of frequency variations.

2-43. Tube V1104 functions as a cathode follower and a class A amplifier. When V1106 is removed and V1106 pin 8 is grounded, V1104 has a voltage gain of 35. Tube V1105 is a simple voltage amplifier with a gain of 2.5 from V1104 pin 6 to V1105 pin 5. Tube V1106 is a cathode follower which provides the low impedance necessary to reduce pickup from the lengthy wire runs required to reach the frequency resistors and the "ADJ AC" amplitude control.

2-44. The output of the oscillator is supplied from pin 8 of tube V1106 through resistor R1164 to the "ADJ AC" amplitude control where a portion of the signal is picked off and supplied through R1165 to grid 7 of tube V1107. The audio output from pin 8 of V1106 is also supplied back to the RC bridge as positive feedback. Resistor R1153, "D.C. LEVEL", adjusts the DC operating level of tubes V1104, V1105, and V1106 to give a zero DC output level. The AC output level at V1106 pin 8 is eight volts, and the maximum AC voltage into R1165 is approximately 4.5 volts due to the heavy shunt load of R1165 on the "ADJ AC" potentiometer.

2-45. The power amplifier consists of tubes V1107 and V1108 and associated circuitry. It provides an output of 0.2 watts to drive transformer T1101. When the transformer is terminated in 5000 ohms on each output, i.e., from terminals 4 and 7 to ground, this amplifier has a nominal gain with feedback of 5 from V1107 pin 7 to T1101 terminal 4. Tube V1107 functions as a triode amplifier-phase inverter. The amplifier section has a voltage gain of 28. The phase inverter introduces a slight loss, giving an over-all gain of 27. Tube V1108 is a push-pull amplifier with a gain of 5 from

V1108 pin 7 to T1101 terminal 4 at 400 cycles. Because of the characteristics of T1101, C1120, and C1121, this gain is reduced to 3.8 at 20 cycles. With the feedback path opened, the over-all gain without feedback from V1107 pin 7 to T1101 terminal 4 is approximately 140. Maximum voltage output with or without feedback is limited to 30 volts by the linearity characteristic of the tube.

2-46. DC VTVM CIRCUIT. The DC vacuum tube amplifier section is a balanced input DC amplifier designed to produce a pointer indication on the 50-microampere DC meter of the test set proportional to the difference of the inputs to the DC amplifier. The DC vacuum tube voltmeter amplifier consists of a single tube, V1103, and its associated circuitry. Tube V1103 is a meter amplifier producing 200 microamperes meter current per volt input. Thus, with the BUCK grid (J1101 pin 9) of the amplifier grounded and +.250 volts applied to the DCVM grid (J1101 pin 10), a full scale meter deflection is obtained on the 50-microampere DC meter. With equal voltages applied to the grids, the meter pointer provides a mid-scale reading. This will change ± 40 meter divisions with a $\pm .125$ volt difference in grid voltage. Equal plate voltages are obtained on V1103 by first setting the "COARSE ZERO" potentiometers R1129A and R1129B and then making a fine adjustment with the "ADJ ZERO" potentiometer. An explanation on the use of the DCVM circuit in the test set is given in paragraphs 2-63 through 2-65.

2-47. AC VTVM CIRCUIT. The AC vacuum tube amplifier section is a sensitive amplifier-detector intended to be connected to the DC amplifier and meter combination so that the combination may serve as an AC vacuum tube voltmeter. Two input sensitivities are provided, 1.0 millivolt and 25 millivolts, and two output amplitudes with 4.8 to 1 amplitude relationships are provided. A 4.8 millivolt sensitivity is obtained by using the 1 mv input and the output normally used for 25 millivolts. Input and output connections for all three sensitivities are illustrated in figure 2-4. These are tabulated as follows:

INPUT		OUTPUT	
TERMINAL	LEVEL	TERMINAL	LEVEL
HI (7)	1 MV AC	HI (16)	125 MV DC
HI (7)	4.8 MV AC	LO (15)	125 MV DC
LO (5)	25 MV AC	LO (15)	125 MV DC

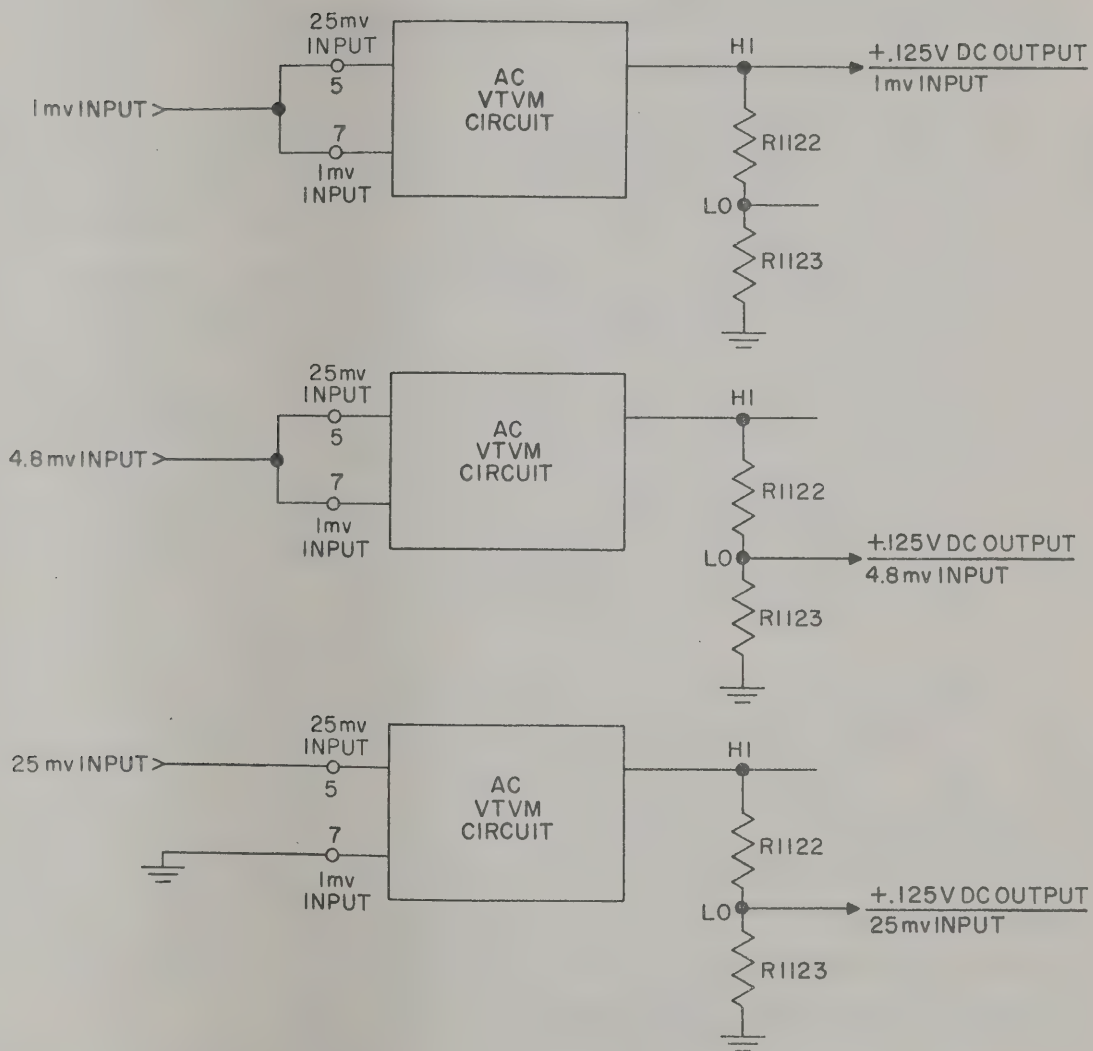


Figure 2-4. AC VTVM Connections for 1, 4.8, and 25 mv Sensitivities

NOTE

To obtain 1 and 4.8 mv sensitivities, the 1 mv input terminal (J1101 pin 7, HI) must be strapped to the 25 mv input terminal (J1101 pin 5, LO). To obtain a 25 mv sensitivity, the 1 mv input must be grounded.

2-48. Tube V1101 is a class A voltage amplifier with a gain of 80 without feedback. Tube V1102 provides a second stage of gain and has a gain of approximately 12.5. Together the tubes have an over-all gain of 1000 with the junction point of CR1101 and CR1102 grounded (i.e., gain without feedback). With feedback, and R1111 set to minimum, the AC gain from V1101 pin 1 to V1102 pin 5 is 250. The rectifier bridge and filter efficiency is approximately 30 per cent; i.e., 5 volts AC produces 1.5 volts DC on the high side of R1122. The over-all transfer characteristic from J1102 pin 7 to J1102 pin 16 is 125 millivolts DC for 1 millivolt AC. The transfer characteristic from J1102 pin 5 to J1102 pin 15 is 125 millivolts DC output for 25 millivolts AC input. A description of the over-all use of this circuit in the test set is given in paragraphs 2-66 and 2-67.

2-49. RESOLVER LOAD. Mounted on the G-234543 Oscillator Amplifier panel with the RC Audio Oscillator circuit and the AC and DC vacuum tube voltmeter circuits is a resolver load. Resolver B1101 and its associated network Z1101 are used as a dummy load and are required for testing one of the package amplifiers. Use of this particular load is necessitated by the unique frequency - impedance characteristic required which could not be economically simulated by other components. Variable resistors located in network Z1101 permit the effective Q of this load circuit to be changed so that an exact amplitude adjustment may be made.

2-50. OTHER COMPONENTS. In addition to the circuits previously discussed, the test set also contains variable potentiometers, rheostats, transformers, and appropriate fixed dividers, ratiometer circuits, etc. to facilitate the measurements it may be required to perform (figure 5-19). These components are principally located on or behind the front panel and on the six-inch deck (figure 5-1). Seven blue-ribbon contact receptacles, J1001 through J1007, are provided for the installation of the

adapters. A toggle clamp is provided to retain the package under test in firm contact with the adapter as well as the adapter to the test set. The test set cannot function unless the interlock circuits of these receptacles are properly interconnected by a test adapter or some equivalent unit. Most of the remaining circuits of the test set are used for distribution of power or for performing interconnecting functions, except a few of the more specialized circuits described below. For each package under test, inputs are provided by direct switching wherever possible.

2-51. Relays K1001, K1002, K1003, and K1004 are provided to insure that tubes in each package under test are warmed up for 2 minutes before plate voltages are applied. Thermal relay K1001 provides a two-minute time delay; at the end of this delay period, relay K1002 locks up through contacts 7 and 12, applying plate power to the package. To insure that filament voltage is checked and adjusted for each package, the relay sequence cannot be initiated until "TEST" switch S1002 is set to 0 (connecting switch decks SD and SE of S1002). This switch position permits the filament voltage to be observed and adjusted by the "ADJUST" knob during and after the two-minute delay period.

2-52. Relays K1005, K1006, and K1007 are arranged to transfer both input and output connections from one channel to the other for two channel packages. This arrangement enables duplicate use of similar test functions and a subsequent reduction in the number of switch positions required. In order to test the second channel of a package, the operator must go back to position 1 of "TEST" switch S1002 to repeat the proper test steps for the second channel.

2-53. Switches S1003, S1004, S1005, and S1006 with associated variable resistors R1019, R1020, R1021, and R1022 provide a means of checking the value of the DC regulated voltages (-150V, +150V, and +300V), the balance or tracking of these DC regulated voltages, and the balance of the DC vacuum tube voltmeter. At any time and at any setting of "TEST" switch S1002, these circuits may be used to provide a reading on meter M1001 with which the balance of the Power Supply Voltage can be checked and, if necessary, readjusted.

2-54. Clutches L1001, L1002, L1003, L1004, and L1005 are arranged in such a manner that lamp L1014 is lit whenever any clutch is engaged. Only one clutch may be engaged at any one time. Clutch engagement enables operation of the "ADJUST" knob to control the setting of the clutched variable resistor (R1009 through R1013) or transformer T1006. Filament clutch L1001 is engaged only on the 0 position of "TEST" switch S1002. The other four clutches are engaged on other positions of the "TEST" switch as determined by the circuitry of the various adapters.

2-55. OVER-ALL CIRCUIT DESCRIPTION.

2-56. GENERAL. The over-all circuit description is primarily concerned with a description of the interrelationship of adapter and test set circuitry, including results displayed on the test set meter.

2-57. There are five basically different circuit combinations used in testing the packages. These are repeated and reused in many similar applications. One typical example of each of these basic circuit combinations is described in paragraphs 2-63 through 2-67. A simplified diagram, shown in figure 5-18, may be used in conjunction with figure 5-19 to aid maintenance personnel in readily tracking other similar circuits between adapter and test set.

2-58. A meter reading is obtained at each position of the "TEST" switch where a circuit is available for adjusting or testing a voltage. Each meter reading should meet certain specified requirements. Methods employed to obtain these readings and the reasons for having them meet certain requirements are explained below.

2-59. ADJUSTABLE METER READINGS. At each position of "TEST" switch S1002 where an output or input voltage for the package must be set to some accurate required value, the red "ADJ TO LINE" light on the test set is illuminated. At the same time, the "ADJUST" knob is clutched to an appropriate control so that the voltage may be adjusted to provide a red-line meter reading. Three methods of meter display are used for adjusting these voltages. These three methods are described below:

(1) For a normal DC setting, a portion of the voltage to be adjusted is applied directly to the DCVM input of the DC voltmeter circuit. Normally 25

microamperes of BUCK output current is produced by application of 0.125 volts to the BUCK input of the DC voltmeter circuit, which gives a scale reading of 60 in the absence of voltage for adjustment at the DCVM input. The DC voltage to be adjusted and observed is sampled by a voltage divider, located in the adapter, so that 0.125 volts is produced from the voltage divider when the required voltage is obtained in the unit under test. This 0.125-volt sample is applied directly to the DCVM input. With 0.125 volts applied to both the BUCK and DCVM inputs, a red-line meter reading (100) is obtained. Where greater deflection sensitivity is desired to give better setting accuracy, the BUCK and DCVM inputs are both increased from 0.125 volts to whatever larger value is required. The meter pointer still indicates 100 when the adjusted input equals the BUCK input, but the meter sensitivity is increased by the factor $\frac{E_b}{0.125}$, where E_b is the BUCK input (also equal to the DCVM input) voltage selected. The test circuits involved in such a measurement are described more fully in paragraph 2-64.

(2) Where two voltages are to be compared or made equal, the DCVM and BUCK inputs of the meter amplifier are connected to the two circuits through identical voltage divider circuits. No buck is used to achieve sensitivity control, so the divider must provide all control. The test circuits involved in such a measurement are described more fully in paragraph 2-65.

(3) Where the voltage to be set is AC, normally 0.125 volts of DC are applied to the BUCK input to give a no signal scale reading of 60. Inputs of 25 millivolts AC to the LO sensitivity input, or 1 millivolt to the HI sensitivity input, produces an identical 0.125 volt DC output which is then applied to the DCVM input. The AC voltage to be adjusted is sampled by a voltage divider located in the adapter so that 25 (or 1) millivolts is produced from the voltage divider when the required voltage is obtained in the unit under test. Where greater sensitivity is required, the BUCK input is increased, and the AC voltage divider is changed until equal AC detector output and BUCK are obtained at the required AC level. The test circuits involved in such a measurement are described more fully in paragraphs 2-66 and 2-67.

2-60. TEST READINGS. For all testing positions of "TEST" switch S1002, the "ADJUST" knob is declutched from all controls, preventing any intentional or accidental disturbance of inputs. The meter displays are arranged to conform with the green, blue, or yellow zones for all tests. An explanation of the use of these meter displays are described below:

(1) The yellow limit is used where the voltages to be observed must fall below a stated maximum. Noise output is a typical yellow limit requirement. Voltage dividers for the yellow limit are calculated to give mid-scale meter readings for the maximum voltage permissible, and BUCK input is changed from 0.125 only when greater than normal sensitivity is needed. The scale chosen in this case is arbitrary.

(2) The blue limit is used where the voltages to be observed must be above a stated minimum. Voltage dividers are calculated for 0.125 DCVM input unless greater sensitivity is needed.

(3) The green limit is used where the voltage to be observed must fall within some specified range. The center of the range is calculated, the permissible deviation from center is calculated as a percent change, and a BUCK voltage is chosen which makes the desired percent change cover just 10 scale divisions. This may be expressed by the formula

$$E_B = \frac{3.125}{P}$$

where E_B is the Buck voltage required and p is the permissible deviation from the nominal voltage in per cent.

For example, assume the center of the range for the voltage to be tested is +100 volts, and the permissible deviation from center is ± 10 volts or 10 percent. In order to use the green limit, a BUCK voltage must be chosen which provides a ± 10 division scale deflection (green zone limits) for a ± 10 volt change. Since 0.125 volt deflects the meter 40 scale divisions, 0.3125 volt provides a deflection of 100 divisions. Thus, a BUCK voltage of 0.3125 volt provides the correct meter sensitivity necessary to give a 10-division deflection for a 10-volt change.

Assume the same center voltage but a permissible deviation of ± 25 volts or ± 25 percent. Using the formula $E_B = \frac{3.125}{25 \text{ percent}} = .125$ volts, which is the BUCK voltage necessary to give the desired meter sensitivity.

2-61. Where the BUCK voltage has been determined by the scale spread requirement, the voltage dividers are simply calculated to give exactly the BUCK voltage for the nominal voltage being measured. Of course, for AC voltages, 25 millivolts AC input produces 0.125 volts DCVM input on low sensitivity and 1 MV AC produces the 0.125V DC on high sensitivity.

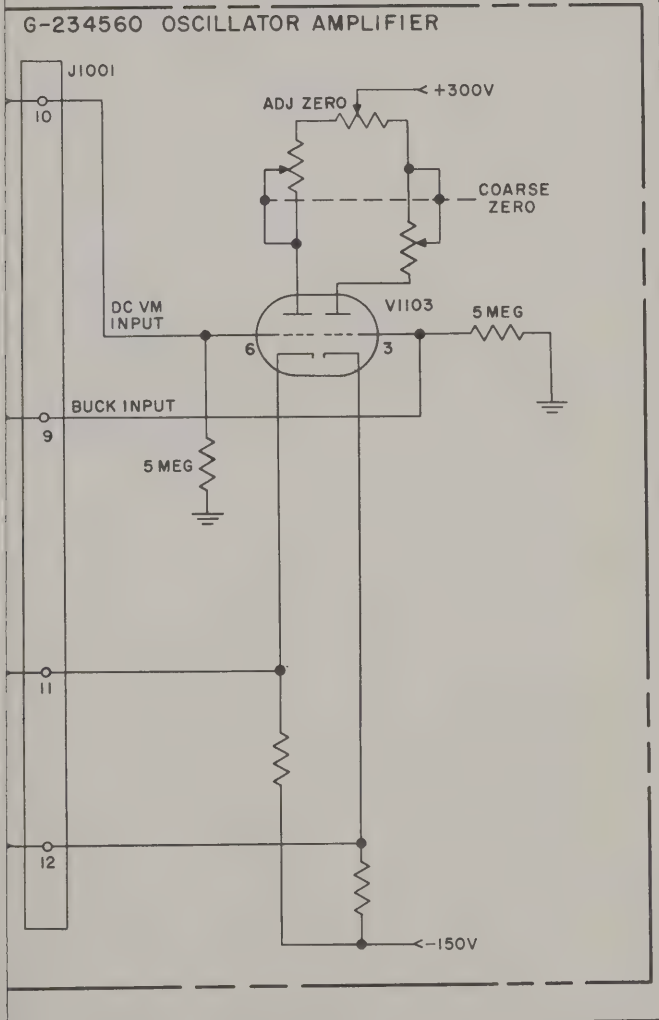
2-62. Voltage dividers are calculated for each test step and all frequency and phase shift measurements are converted, as required, into voltage amplitude measurements. Where necessary, either a bridge is provided or the nature of the test is changed. For example, in measuring an amplifier gain-frequency fall-off characteristic, an amplitude limit at fixed frequency change is measured instead of the original frequency limit at fixed amplitude change. Thus, a package test specification requirement of 3 db drop, limit 35 cycles $\pm$ 5 cycles, might be changed to 35 cycles, limit 3 db $\pm$.3 db.

2-63. DC VTVM TEST PATH - BUCK INPUT UNUSED. A typical DC vacuum tube voltmeter test path is illustrated in figure 2-5. For demonstration purposes circuits from the GS-17460 Test Set (figures 5-19 and 5-20), the GS-17462 Adapter (figure 5-23), and its mating GS-16697 Amplifier package (figure 5-32) are used. The particular test circuit combination illustrated is used to check a bias voltage for the package which must be within -100 ± 25 volts. The test is made with "TEST" switch S1002 in position 4. Prior to making this test, the input to the package is balanced (position 1) and the bias is adjusted (position 2) for a required output reading. At position 4 of the "TEST" switch, the BUCK grid of tube V1103 is connected to ground through deck SB while the DCVM grid is connected through deck SC to a voltage divider consisting of precision resistors R2207, R2208, and R2240. Two arms of the voltage divider (R2207 and R2208) are in a resistance ratio of 100 to 150. Thus, the center point of this divider is at 0 volts when the voltage on J2201 pin K is at -100 volts. The value of the low impedance resistor R2240 is chosen so that a change of voltage of 100 volts at pin K produces a change of only

.125 volts at the top of R2240. This lead from the top of R2240 may be stated as having a scale factor of $\frac{.125V}{100V}$. For a bias voltage of -100 volts, there is zero input to both grids of tube V1103, and meter M1001 provides a mid-scale reading of 100. If the bias voltage becomes more positive by 25 volts (to the upper limit of -75 volts) there would be a +.03125 volt change in DC voltage applied to one grid of V1103 while the other grid remains at ground potential. Since sensitivity of the VTVM is $\frac{25MA}{.125V} = \frac{40 \text{ div.}}{.125V} = \frac{10 \text{ div.}}{.03125V}$, the change causes a meter deflection of 10-scale divisions which, in this case, gives a meter reading of 110 (the upper limit of the green zone).

2-64. DC VTVM TEST PATH - INPUTS IN OPPOSITION. In other applications of the DC voltmeter two inputs are used. These are used both in opposition and in an additive fashion. (For an explanation of the additive effect refer to paragraph 2-65.) Figure 2-6 is a typical test path with inputs opposing. For illustrative purposes circuits of the test set (figures 5-19 and 5-20), the GS-17468 Adapter (figure 5-29), and its associated GS-16451 Signal Comparator (figure 5-38) are used. The test circuit combination provides a measurement of an unknown voltage from the package which should be +11.58 volts $\pm 7\%$. For this test, switch S1002 is in position 9 which connects one grid of tube V1103 to a voltage divider (precision resistors R2807 through R2810) with a ratio of $\frac{.450}{11.85}$, while the other grid is simultaneously connected to a known voltage of +.450 volts. A voltage of +.450 volts on the BUCK grid deflects the meter pointer downscale and requires a +.450 volt input on the DCVM grid to bring it back upscale for a mid-scale reading. A voltage of +11.85 volts applied to the top of the voltage divider provides an opposing voltage of +.450 volts to the DCVM grid. Any fluctuation from +11.85 directly varies the voltage on the DCVM grid causing an upscale meter deflection for an increase in voltage and a downscale reading for a decrease in voltage.

2-65. DC VTVM TEST PATH - INPUTS ADDING. A typical test path with both inputs to the VTVM acting in an additive fashion is illustrated in figure 2-7. For illustrative purposes circuits from the test set and the GS-17461 Adapter (figure 5-22) with its associated GS-17434 Amplifier package (figure 5-31) are used. In the test circuit combination shown in figure 2-7, an indication of the relative balance of



Typical Test Path - BUCK Input Unused

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GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

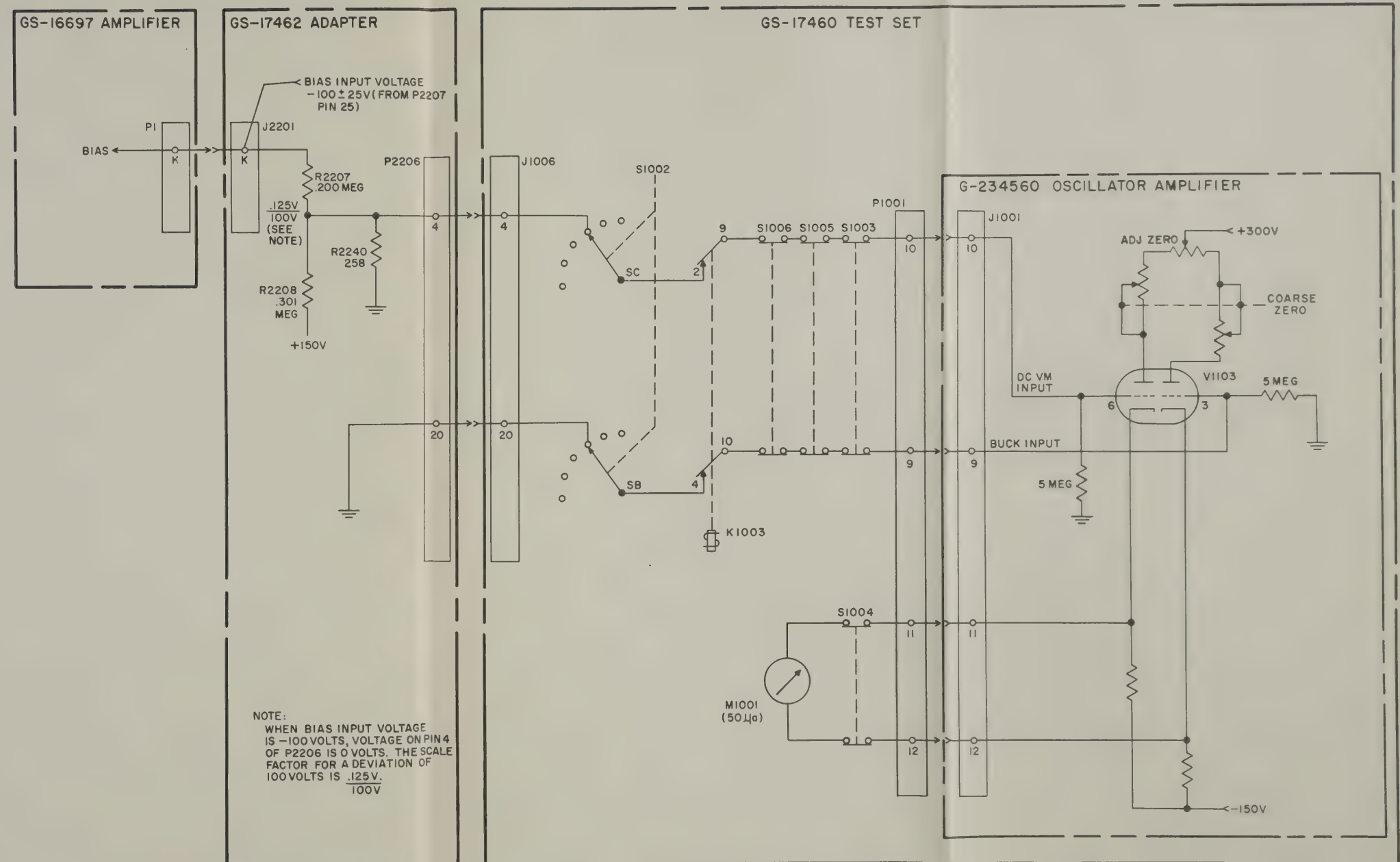


Figure 2-5. DC VTVM Typical Test Path - BUCK Input Unused

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

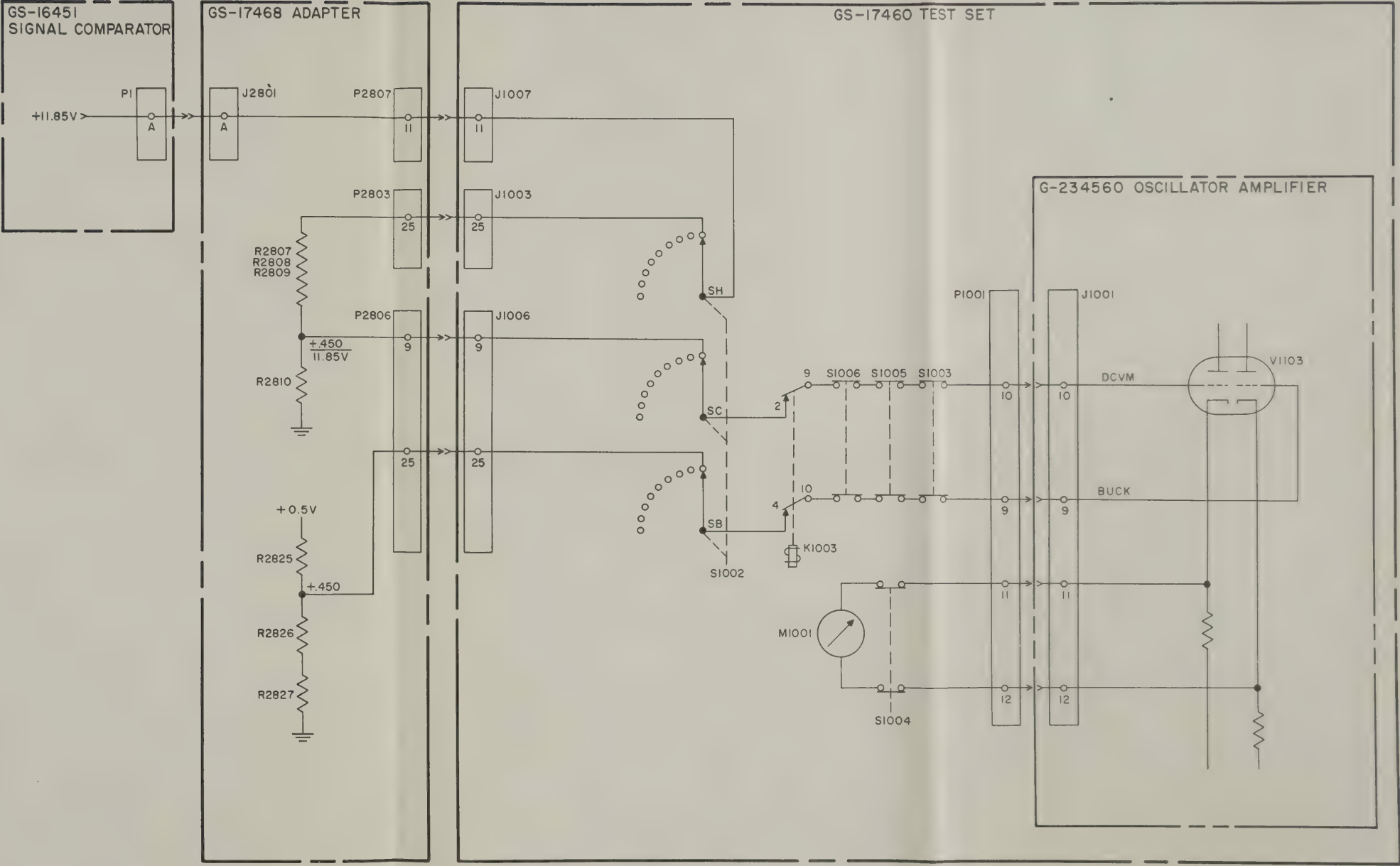


Figure 2-6. DC VTVM Typical Test Path - Inputs in Opposition

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

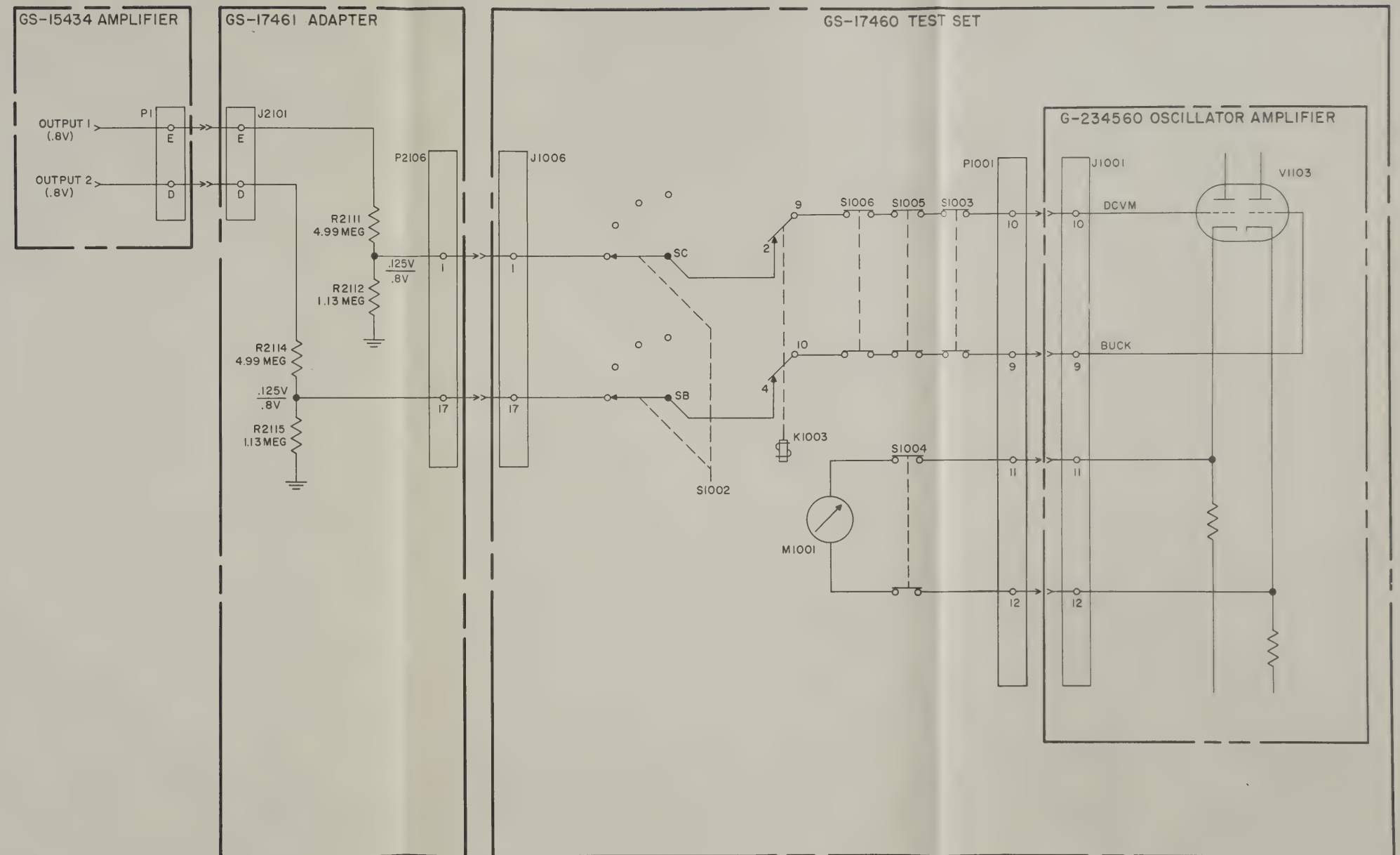


Figure 2-7. DC VTVM Typical Test Path - Inputs Adding



GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

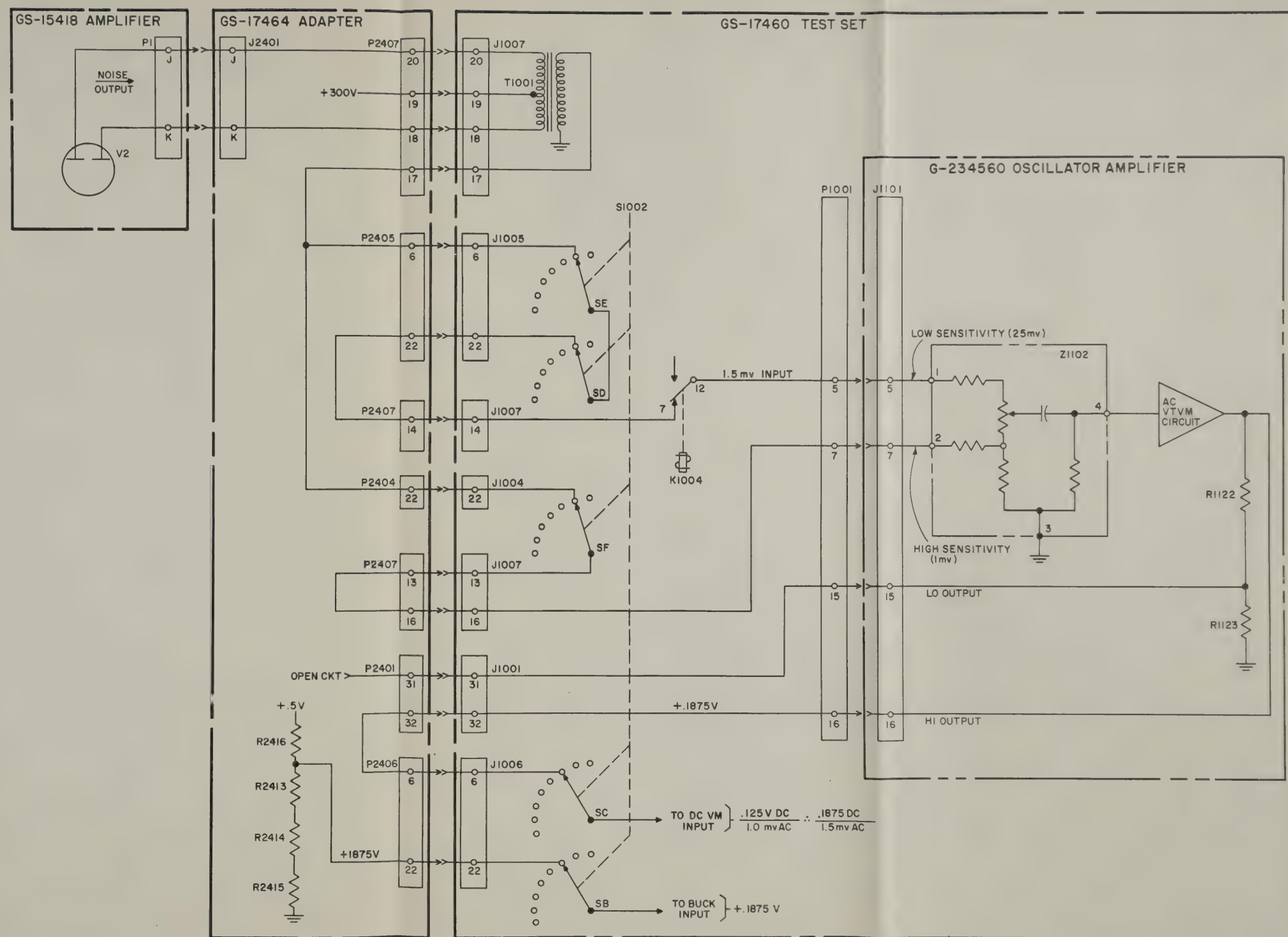


Figure 2-9. 1 mV AC VTVM Typical Test Path

two DC outputs from the package is registered on meter M1001. This indication is used to adjust these outputs to a balanced condition. Output 1 from the package is connected to voltage divider R2111 and R2112, and output 2 is connected to voltage divider R2114 and R2115. Resistance ratios of these two voltage dividers are the same, so that when equal voltages are applied to the dividers, equal grid voltages are connected to V1103. Any deviation of these two voltages from equality makes one relatively positive or relatively negative to the other. A positive input into the DCVM grid of V1103, or negative on BUCK grid, produces an upscale meter reading while a reversal of polarity produces a downscale reading. Thus, the effects of any deviation from balance of these two voltages tend to add.

2-66. 25 MV AC VTVM TYPICAL TEST PATH. As a typical example of a 25 mv AC VTVM test path, circuits from the GS-17465 Adapter (figure 5-26) and the associated GS-15416 Amplifier (figure 5-35) have been chosen. This circuit combination is illustrated in figure 2-8. With switch S1002 in position 8, the circuit is designed to provide a mid-scale meter reading for a 25-volt AC output from the package (terminal P of J2501). In order for the AC voltmeter circuit to measure such a voltage, it must be divided down to an approximate value that the circuit is capable of handling. Through the choice of input connections to network Z1102 and the choice of a high and a low output from the AC voltmeter circuit, an input of 1, 4.8, or 25 mv AC can be made to deliver a 125 mv DC output to the DC VTVM (figure 2-4). The voltage being measured in this particular example is approximately 25 volts and is divided down by R2516 and R2517 so that a 25 mv sample is being supplied to the AC VTVM network Z1102. To obtain the 25 mv sensitivity desired from the AC VTVM, this sample voltage is supplied to the 25 mv input of Z1102 (terminal 1), the 1 mv input (terminal 2) is grounded, and the DC output is taken from the junction of R1122 and R1123, the low sensitivity output of the AC VTVM circuit. With the circuit connected in this manner and with a 25 mv input at terminal 1 of Z1102, the AC VTVM output is +.125 volts DC. This DC output is supplied to the DC VTVM for measurement. Meter M1001 may be made to read wherever desired on the scale by adjusting the BUCK voltage. A mid-scale reading is desired in this case so a +.125 volt DC voltage is applied to the BUCK grid in opposition to the test voltage.

2-67. 1 MV AC VTVM TYPICAL TEST PATH. Figure 2-9 is a typical example of a 1 mv AC test path. The test path illustrated is designed to check the noise output of the GS-15418 Amplifier (figure 5-34) and includes circuits of the GS-17464 Adapter (figure 5-25) and the test set. The noise output of the package is supplied through the test adapter to the primary of T1001 in the test set. In order for the package to pass this particular test, the resulting voltage on the secondary of T1001 should not exceed 1.5 mv. With an input of 1.5 mv or less available to the AC VTVM circuit a 1 mv sensitivity is desired. To obtain this 1 mv sensitivity, the 25 mv input of the AC VTVM circuit must be connected to the 1 mv input. This connection is made with "TEST" switch S1002 in position 6. The output from T1001 is connected to the LOW SENSITIVITY input through decks SE and SD and contacts 7 and 12 of K1004, and to the HIGH SENSITIVITY input through deck SF. For a 1 mv AC input to the AC VTVM circuit a $+125V$ output is obtained at pin 16 of J1101, or for a 1.5 mv input a $+1875V$ output is obtained. Since the maximum AC VTVM input permitted in this test is 1.5 mv AC the maximum output voltage expected is $+1875V$. For a DC output of $+1875V$, a mid-scale meter reading is obtained by selecting a BUCK voltage for the DC amplifier of $+1875$ volts. Other 1 mv tests and the 4.8 mv tests are made in a manner similar to that described above; however, in the 4.8 mv tests, the DC output of the AC VTVM circuit is taken from the LO output, pin 15 of J1101.

2-68. ADAPTER CIRCUITRY.

2-69. As already described, the adapters principally contain precision voltage dividers for package inputs and outputs as well as meter bucking voltages to give proper meter scale spread. In addition, cathode followers are included in some adapters to drop impedance where excessive noise pick-up would be present if the impedance were high. There are other points of high impedance for which low pick-up is achieved only through the use of short leads. Care should therefore be exercised in making changes on any short network leads such as those found in the GS-17464 Adapter for the GS-15418 Package.

2-70. Capacitor C2803 in the GS-17468 Adapter is required to prevent build-up of the AC pick-up level to a point where it may be rectified by the package. Without

this capacitor, pick-up is sufficient to produce incorrect meter readings. All other connections and circuits of the adapters are derived from requirements called for in the package amplifier test specifications.

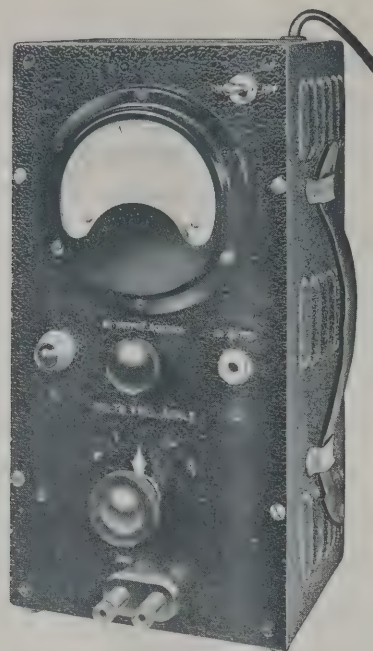


Figure 3-1. Voltmeter ME-6/U

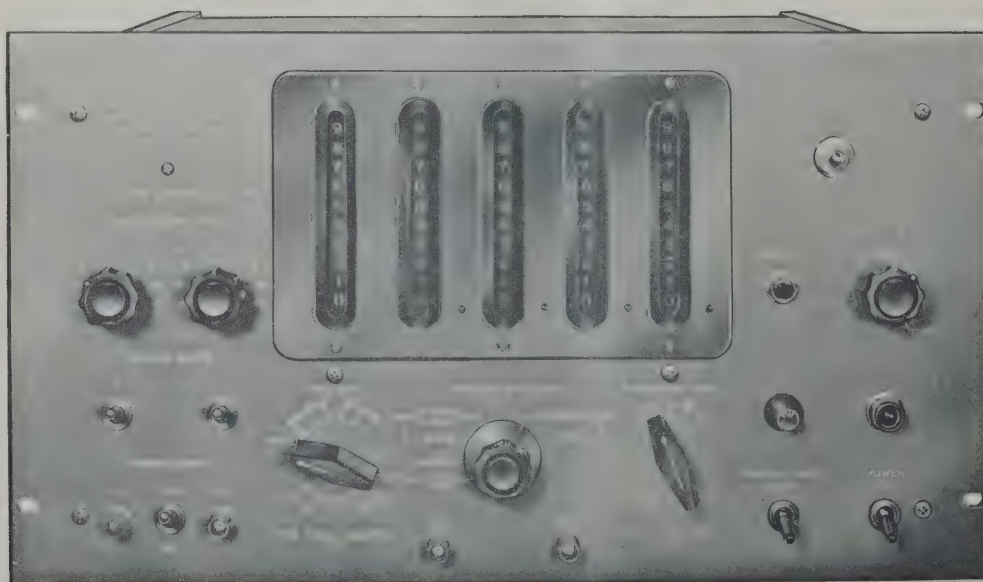


Figure 3-2. Counter, Hewlett Packard Model 522B

SECTION III

SPECIAL TOOLS AND TEST EQUIPMENT

3-1. SPECIAL TOOLS. The only special tool required for testing or adjusting the GS-16744 Amplifier Subassembly Test Equipment is a G-235411 Special Shim (figure 1-4). This shim is supplied with the GS-17460 Test Set and is used to adjust the magnetic clutches of the test set (paragraph 5-23).

3-2. SPECIAL TEST EQUIPMENT.

3-3. There are five pieces of test equipment required to test and maintain the GS-17460 Test Set which are not supplied. These are listed in table 3-1 with figure and text references. In addition to the test equipment listed in table 3-1, a GS-17469 Switch Box supplied as part of the GS-16744 Amplifier Subassembly Test Equipment is required to test the GS-17460 Test Set. Refer to paragraphs 4-1.

3-4. If a frequency counter as called for in table 3-1 is not available, alternate equipment as called for in paragraph 4-9d may be used. This equipment consists of a GS-16746 Frequency and Distortion Meter and an oscilloscope. The Frequency and Distortion Meter is a unit of the K5 Test Equipment.

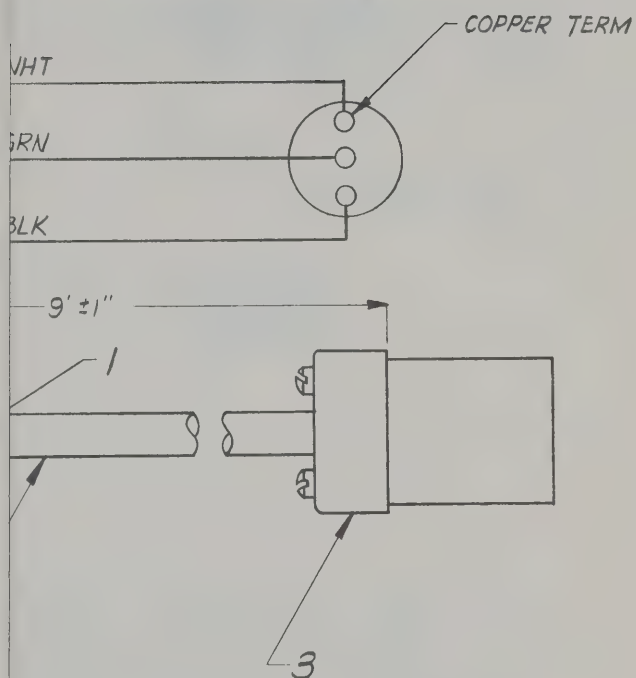
3-5. In order to test the power supply of the test set a +300, +150, and -150 volt power source must be used. This may be obtained from the K5 System or an available commercial power supply. Refer to paragraph 5-19 for the testing procedure used to detect trouble in the power supply.

3-6. SPECIAL PURPOSE CABLES. A G-234790 Cable Assembly (Power) and a G-234791 Cable Assembly (Meter) are supplied with the test set. These are shown in figures 3-3 and 3-4.

TABLE 3-1
TEST EQUIPMENT

Figure Reference	Test Equipment	Use	Paragraph Reference
3-1	Voltmeter ME-6/U or equivalent	(1) Oscillator checks (2) AC Voltmeter checks	4-9g 4-10a
	DC VTVM Hycon Model 615 or equivalent	(1) DC voltage adjustments (2) DCVM checks	4-7c 4-8j
	Multi-Range Milliammeter 0 to 50 milliamperes	(1) Investigating package malfunctions	5-49
3-2	Counter, Hewlett Packard Model 522B or equivalent	(1) Oscillator checks	4-9d
	Ohmmeter	(1) Trouble-shooting magnetic clutch assembly	5-24

SUBASSEMBLY TEST EQUIPMENT

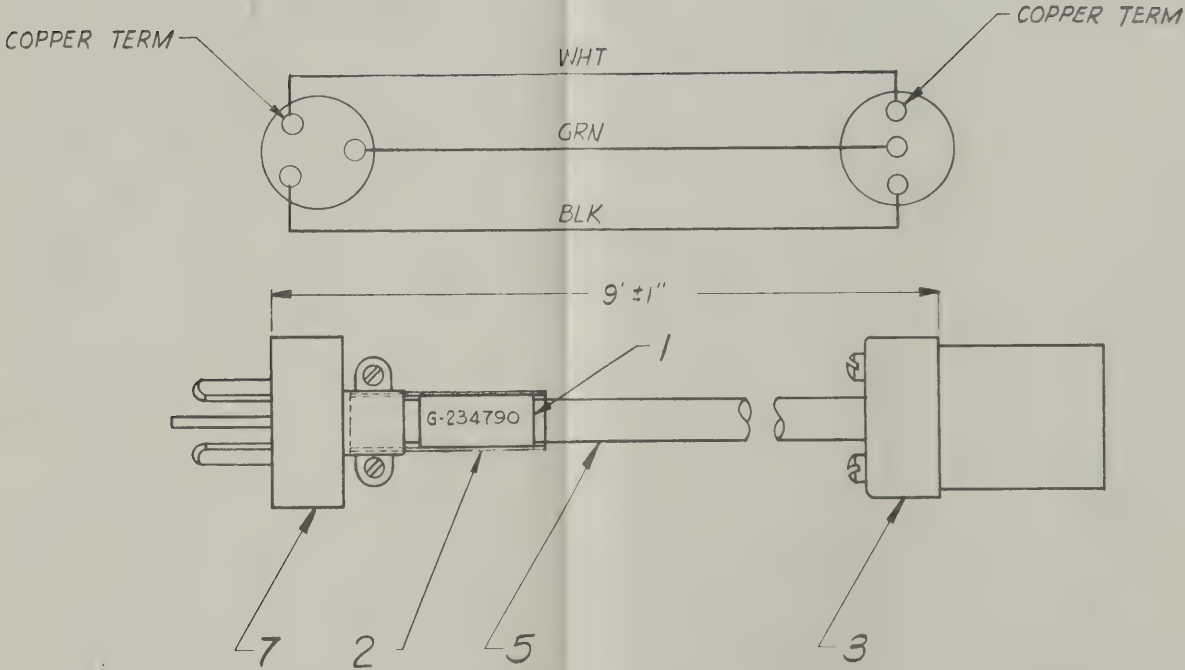


-234790 Cable Assembly (Power)

TABLE 3-1
TEST EQUIPMENT

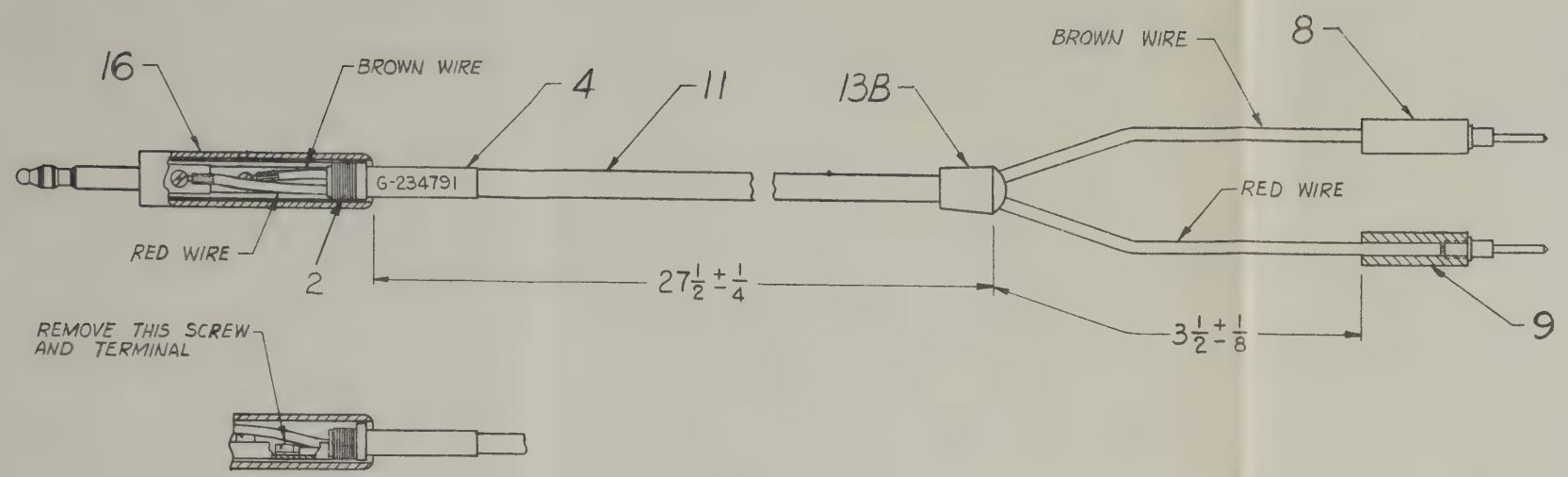
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	Multi-Range Milliammeter 0 to 50 milliamperes	(1) Investigating package malfunctions	5-49
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	Ohmmeter	(1) Trouble-shooting magnetic clutch assembly	5-24

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT



						9
						8
1		BA-717203	CONNECTOR, PLUG			7
						6
✓		G-210868-1	CABLE, POWER, ELECTRICAL			5
						4
1		G-205824-1	CONNECTOR, PLUG			3
✓		BA-10236-325	INSULATION SLEEVING, ELEC.			2
1		BA-10144-44	WIRE MARKER STAMP G-234790			1
REQ	CUSTOMER'S DESIGNATION	DESIGNATION FOR WE USE	DESCRIPTION	REF DESIG	NOTE	FIND NO.

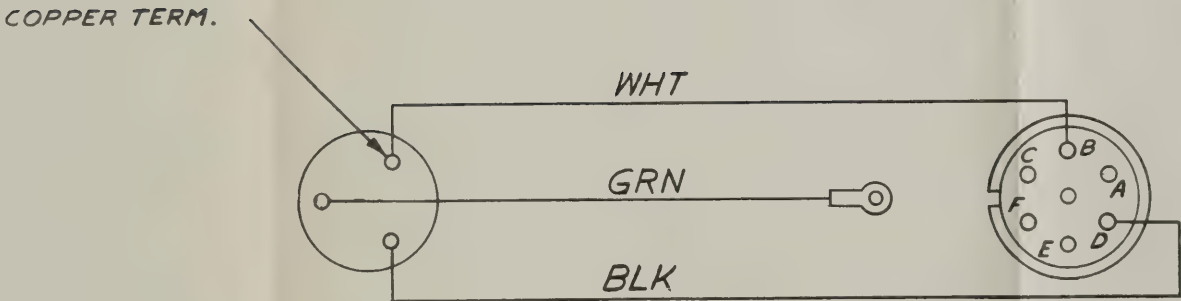
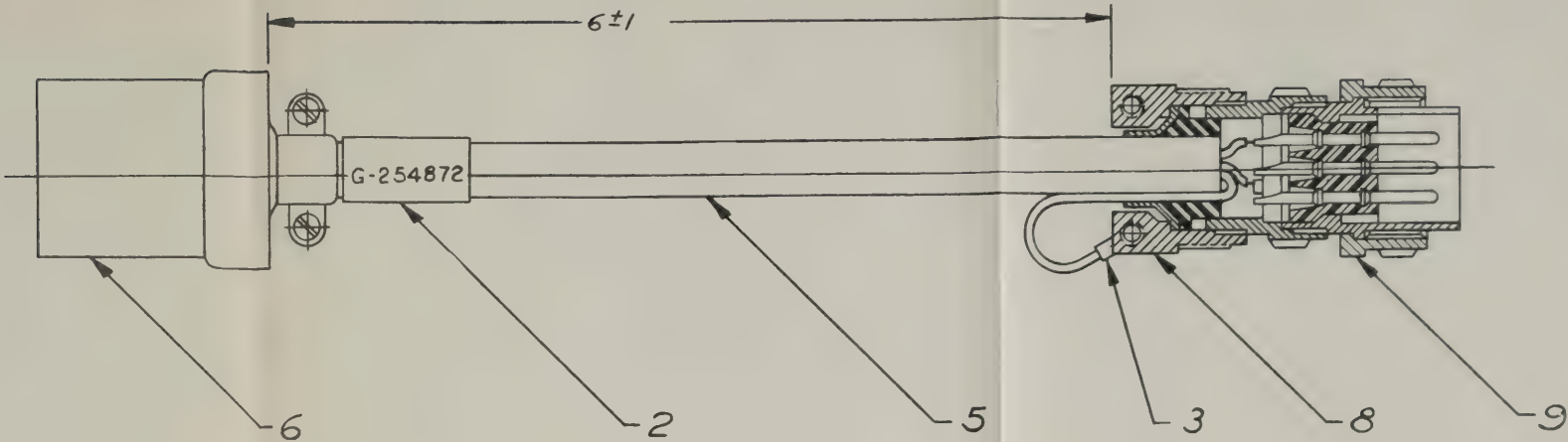
Figure 3-3. G-234790 Cable Assembly (Power)



1			PLUG, TELEPHONE JAN #PJ-068			16
						15
						14
1		G-235085	BUMPER, RUBBER			13B
						12
✓		G 231474	CABLE, POWER ELECTRICAL			11
						10
1		G-231472-2	PLUG, TIP			9
1		-1				8
						7
✓		G-205577	CLEAR VARNISH	2		6
						5
1		BA-10144-16	WIRE MARKER/STAMP G-234791			4
						3
✓		GA-9010	CORD, 35/2	2		2
						1
REQ	CUSTOMER'S DESIGNATION	DESIGNATION FOR WE USE	DESCRIPTION	REF DESIG	NOTE	FIND NO.

Figure 3-4. G-234791 Cable Assembly (Meter)

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT



1		AN3106A-18-9P	PLUG, STRAIGHT			10
1		AN3057-10B	CABLE CLAMP			9
						8
						7
1		BA-717202	CONNECTOR, PLUG, ELECTRICAL			6
✓		G-210868-1	CABLE, POWER, ELECTRICAL			5
						4
1		BA-98263-3	TERMINAL LUG			3
1		BA-10144-44	WIRE MARKER			2
						1
REQ	CUSTOMER'S DESIGNATION	DESIGNATION FOR WE USE	DESCRIPTION	REF DESIG	NOTE	FIND NO.
LIST OF MATERIAL						
✓—DENOTES QUANTITY AS REQUIRED B—DENOTES SUB-ASSEMBLY D—DENOTES PARTS TO BE SHIPPED LOOSE						

Figure 3-5. G-254872 Cable Assembly (Special Purpose)

SECTION IV

PERIODIC INSPECTION AND LUBRICATION

4-1. PERIODIC INSPECTION.

4-2. At least once per month, or more frequently if conditions warrant, the GS-17460 Test Set should be checked and adjusted with the GS-17469 Switch Box. The switch box is a field maintenance test device which is used to test all important test functions of the test set. Testing with this unit consists of checking the test set output voltages and frequencies, checking the accuracy and performance of the vacuum tube voltmeters, and checking the proper functioning of relay, clutch, and programming light circuits.

4-3. The switch box may also be used as a trouble shooting device. When trouble is suspected in the test set, use of the switch box according to the procedure outlined in this section should localize trouble to a particular circuit. The trouble then may be corrected by using the information given in Section V.

4-4. To check the test set, turn all switches on the switch box to the "OFF" position and plug the switch box into the test set as shown in figure 4-1.

a. Operate S1001, the test set main power switch, to "ON". The meter should be illuminated with all three lights functioning.

b. Depress the "VIBRATE" button. The meter vibrator should operate. This can be determined by touching the frame of the vibrator or meter mounting plate.

c. Observe that no other lights or labels are illuminated at this time.

4-5. Fuse checks are made as follows:

a. Remove one of the fuse caps, remove the fuse from the cap, and reinstall the cap in the fuse holder. The lamp in the cap should light, and the meter illumination should be extinguished.

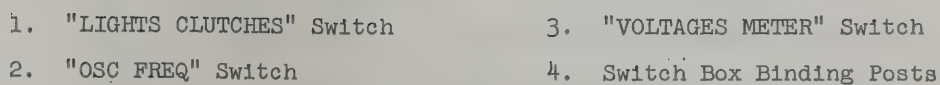
b. Reinstall the fuse just removed and repeat this operation with the other fuse holder. The cap light should light and the meter illumination should be off for this fuse holder also.

4-6. Light and relay checks are made as follows:

a. Restore the fuses and reoperate S1001 to "ON" if necessary to apply power to the set.

b. Operate the "LIGHTS CLUTCHES" switch of the switch box (1, figure 4-1, referred to as the "L-C" switch) and the "TEST" switch to the switch positions indicated in table 4-1. The proper light and only that light of the test set should light as follows:

TABLE 4-1. LIGHT CHECKS		
L-C SWITCH POSITION	TEST POSITION	LIGHT
PREHEAT	0	PREHEAT
OPERATE	0	(No lights on)
CLUTCH 1	1	RED
CLUTCH 2	1	RED
CLUTCH 3	1	RED
CLUTCH 4	1	RED
CLUTCH 5	1	RED
GRN	1	GREEN
YEL	1	YELLOW
BLU	1	BLUE
1-2	1	1-2
1-15	1	1-15
SPECIAL	1	SPECIAL
COMPLETE	1	COMPLETE



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c. Restore the "TEST" switch to 0 and the "L-C" switch to "OFF".

d. Operate the "L-C" switch to "PREHEAT" and start a stopwatch at the same time. The preheat light, which should now be on, should extinguish of its own accord in 2 ± 1 minutes.

4-7. Voltage adjustments are made as follows:

a. Operate the "TEST" switch to position 1.

b. Rotate the "VOLTAGES METER" switch of the switch box (3, figure 4-1, referred to as the "V-M" switch) to "-150V".

c. Connect an external DC voltmeter (table 3-1) between the switch box binding posts.

d. Push the "ADJUST -150" button on the test set front panel and observe the test set meter. The test set meter should read approximately mid-scale and the external meter should indicate approximately -150 volts. Set the "ADJUST -150" screwdriver adjust (R1020, frontpanel) to produce a mid-scale or red-line reading on the test set meter. With the "ADJUST -150" button depressed, observe the reading on the external meter. It should be within $-150 \pm 8V$.

e. Push the "ADJUST ZERO" button on the test set. Observe the meter of the test set and adjust the "ADJUST ZERO" screwdriver adjustment (R1019). The meter pointer should move in response to rotation of the adjusting shaft.

NOTE

If may be necessary to use the "COARSE ZERO" control (figure 4-2) if the pointer is off scale.

f. Set the "ADJUST ZERO" potentiometer to position the pointer on the "ADJUST LEVEL" line of the meter. If adjustment to the "ADJUST LEVEL" line of the meter is not possible at this time by means of the "ADJUST ZERO" control, the "COARSE ZERO" control on the oscillator amplifier should be reset to provide this adjustment.

g. Push the "ADJUST +150" button and adjust the "ADJUST +150" screwdriver control to center the meter pointer exactly on the "ADJUST LEVEL" line.

h. Release the "ADJUST +150" and push the "ADJUST +300" button. Center the meter by use of the "ADJUST +300" screwdriver control.

i. Release the "ADJUST +300" button and again actuate and reset the "ADJUST ZERO" and "ADJUST -150" controls. Repeat pushbutton operation and resetting of all four screwdriver controls until the test set meter is exactly coincident with the "ADJUST LEVEL" line for any and all button activations.

j. With the "TEST" switch still on position 1, rotate the "V-M" switch to "+150". The voltage on the external voltmeter should be equal in magnitude to the -150 voltage within ± 0.5 volts.

k. Rotate the "V-M" switch to "+300". The voltage should be twice the -150 volt magnitude within 5 volts.

l. Rotate the "V-M" switch to "+0.5V". Using the DC voltmeter the voltage across the binding posts should be equal in magnitude to .00333 of the +150-volt supply within $\pm .005V$.

4-8. DCVM checks are made as follows:

- a. Set the "V-M" switch to "DC BUCK".
- b. Set the "L-C" switch to "CLUTCH-3 BUCK".
- c. Set the "TEST" switch to position 1.
- d. Rotate the "ADJUST" knob on the test set to maximum counterclockwise position.
- e. Adjust the "ADJUST ZERO" control (R1019) of the test set until the meter indicates a scale reading of 60. (The "COARSE ZERO" control, R1129, of the oscillator amplifier may be reset if required to permit this adjustment.)

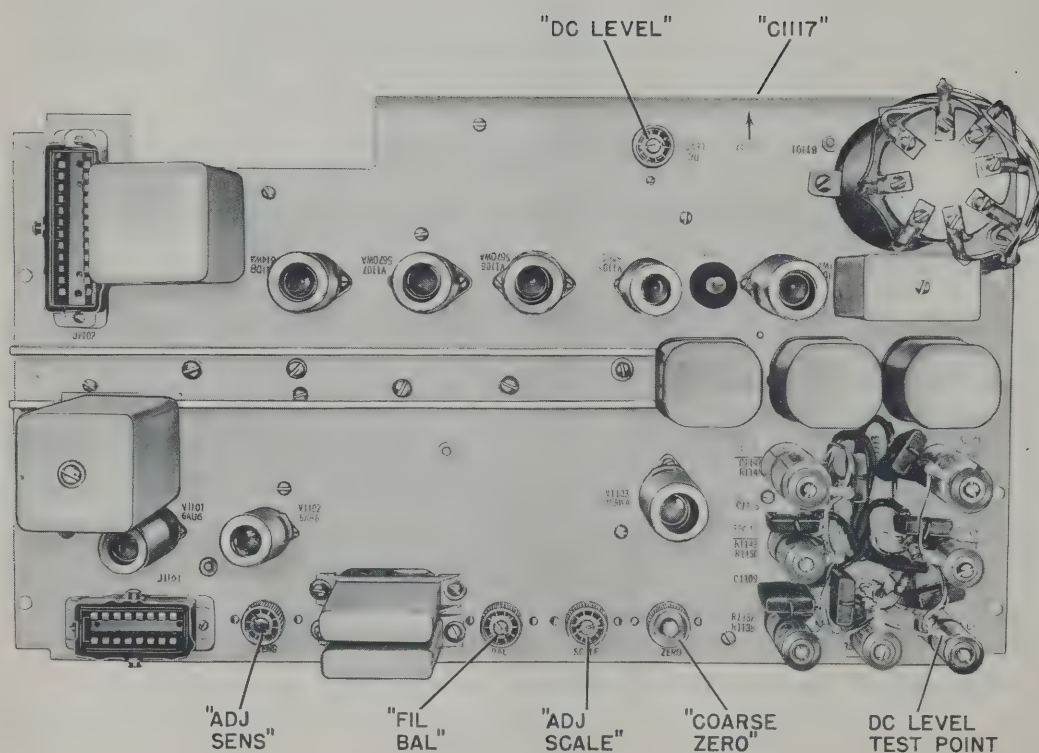


Figure 4-2. Top View of G-234543 Oscillator-Amplifier

f. Push the "ADJUST ZERO" button of the test set and check that the meter deflects to the "ADJUST LEVEL" line. If it does not, readjust the "ADJ SCALE" control (R1126 on the oscillator amplifier panel, figure 4-2.) so that it coincides with the "ADJUST LEVEL" line.

g. Repeat steps e and f until both requirements are met. The pointer of the "ADJ SCALE" control should be between 3 and 9.

NOTE

Properly functioning equipment with nominal components should yield a setting between 3 and 9. A unit with a setting outside these limits can still give satisfactory performance, but the extreme rotation of the adjustment may indicate that trouble is developing and preventive maintenance may be attempted.

h. Check the position of the screwdriver "ADJUST ZERO" control. It should be at least 90° rotation from either end of its travel; in other words, it should be in the middle third of its rotation. (Reset to the position of step g after this check.) If it is not in the middle third, set to approximate mid-rotation, depress the "ADJUST ZERO" button, and readjust the "COARSE ZERO" control until the pointer reads "ADJUST LEVEL".

i. Check the pointer position of the "COARSE ZERO" control. It should read between 3 and 9.

j. Adjust the "ADJUST" control knob until the test set meter reads exactly 130. The voltage at the binding posts as read by the DC voltmeter should fall between -0.090 and -0.098.

k. Set the "V-M" switch to "DCVM".

l. Set the "L-C" switch to "CLUTCH-5 DC".

m. Adjust the "ADJUST" control knob until the test set meter reads exactly 90. The voltage at the binding posts should fall between +.090 and +.098.

4-9. Oscillator checks are made as follows:

- a. Set the "V-M" switch to "OSC AC".
- b. Set the "L-C" switch to "CLUTCH-2 AC".
- c. Set the "OSC FREQ" switch (2, figure 4-1) to 400 cycles.
- d. Set the "ADJUST" control knob approximately to mid-rotation. There should be a voltage at the binding posts of 400 ± 1 cycles, as measured by the frequency counter (table 3-1). If a counter is not available, proceed according to the note following step h. If necessary, adjust C1117 on the oscillator panel (figure 4-2 or 4-3) so that this requirement is met.
- e. Attach the DC vacuum tube voltmeter (table 3-1) to the DC level test point at the common end connection of the frequency determining resistors R1137, R1139, etc., on the oscillator amplifier panel (figure 4-2). The DC voltage should be 0 ± 0.5 volt. If necessary, adjust the "DC LEVEL" control (figure 4-2) to meet this requirement. The pointer of the "DC LEVEL" control should be between 3 and 9.
- f. Set the "ADJUST" control knob to the maximum clockwise position.
- g. Observe the AC voltage at the binding post with an AC vacuum tube voltmeter (table 3-1). Rotate the "OSC FREQ" switch to 35, 50, 100, 350, 400 and 850 cycle positions. The output voltage should be greater than 18 volts at all positions.
- h. Observe the AC voltage at the binding post with the frequency counter. Rotate the "OSC FREQ" switch through all positions to ascertain that the proper frequency is being generated at each switch position. The output frequencies should be as follows:

<u>Switch</u>	<u>Frequency</u>
35	35 ± 1
50	50 ± 1
100	100 ± 10
200	200 ± 10
350	350 ± 10
400	400 ± 10
850	850 ± 10

NOTE

If a counter is not available, the GS-16746 Frequency and Distortion Meter should be used for checking the frequency by connecting it to the binding posts of the switch box. With the "OSC FREQ" switch set to 350, the Frequency and Distortion Meter should read 350 ± 1 cycles. Again C1117 may be adjusted to meet this requirement. If necessary, it is possible to measure the other frequencies from the GS-17460 Test Set by using the 350-cycle output of the GS-16746 Frequency and Distortion Meter and the appropriate lissajous figures on an oscilloscope.

4-10. AC voltmeter checks are made as follows:

- a. Set the "V-M" switch to "ACVM 1.0", set the "OSC FREQ" switch to "350", and check that the "L-C" switch is at "CLUTCH 2 AC". Connect an AC voltmeter to the binding posts, and adjust the "ADJUST" control knob to set the AC level exactly to the "ADJUST LEVEL" line. The external voltmeter should read $1 \text{ MV} \pm 0.1$. If it does not, readjust the "ADJ SENS" control (figure 4-2) on the oscillator amplifier panel.
- b. Set the "V-M" switch to ACVM 25" and adjust the "ADJUST" control knob to set the AC level to 25 millivolts as read on the external meter. The pointer of the meter on the test set should be at 100. If it is not, readjust R1102 (screwdriver adjustment on Z1102, figures 4-3 and 4-4) for a reading of 100.
- c. Repeat steps a and b as required for simultaneous performance of both requirements.
- d. Set the "V-M" switch to "ACVM 1.0". Set the "ADJUST" control knob to maximum counterclockwise position. The meter on the test set should read below 75 on the scale.

NOTE

If the "OSC FREQ" is set for 400 cycles and the line frequency happens to be within a few cycles of 400, it is permissible for the meter pointer to wave or wander up to ± 3 divisions.

e. Set the "L-C" switch to "OPERATE". Set the "TEST" switch to 0. Set the "V-M" switch to "FIL X". Adjust the "ADJUST" control knob until the meter of the test set indicates exactly on the "ADJUST LEVEL" line. The external AC voltmeter connected to the binding posts should indicate 3.15 ± 0.15 volts.

f. Set the "V-M" switch to "FIL Y". The external voltmeter should indicate 3.15 ± 0.20 .

4.11. Other miscellaneous checks are made as follows:

a. Set the "L-C" switch to "OFF" and then to "PREHEAT". The meter on the test set should respond to rotation of the "ADJUST" control knob and the "PREHEAT" label should be lit.

b. Set the "TEST" switch to position 1. The "PREHEAT" light should extinguish.

c. Set the "L-C" switch to "CLUTCH 2 AC" and the "V-M" switch to "400 CY". Connect the AC voltmeter to the binding posts. It should be possible by adjustment of the "ADJUST" control knob to set the AC voltmeter to 5 volts.

d. Set the "L-C" switch to "CLUTCH 4 BIAS" and the "V-M" switch to "VAR-". Connect the DC vacuum tube voltmeter to the binding posts. By adjustment of the "ADJUST" control knob it should be possible to set the voltmeter to -125 volts.

e. Set the "V-M" switch to "+28V" and connect the DC voltmeter to the binding posts. Set the "L-C" switch to "PREHEAT", "OPERATE", "CLUTCH 1 FIL", and "1-15". The DC voltage on the external meter should stay between 19 and 37 volts.

4-12. Listed in table 4-2 is a sample test record form. It is suggested that a similar form be filled out at each monthly inspection.

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

Table 4-2

TABLE 4-2 SAMPLE TEST RECORD FORM		
Serial # _____ Date of Test _____ Tester _____		
Test Reference	Requirements	Readings
4-4a	METER LIGHTS	_____ CHECK
4-4b	VIBRATOR	_____ CHECK
4-4c	OTHER LIGHTS OUT	_____ CHECK
4-5a	FUSE CAP LIGHTS	_____ CHECK
4-5b	2nd FUSE CAP LIGHTS	_____ CHECK
4-6b	PREHEAT LIGHT	_____ CHECK
4-6b	OPERATE (No Lights)	_____ CHECK
4-6b	RED	_____ CHECK
4-6b	RED	_____ CHECK
4-6b	RED	_____ CHECK
4-6b	RED	_____ CHECK
4-6b	RED	_____ CHECK
4-6b	GREEN	_____ CHECK
4-6b	YELLOW	_____ CHECK
4-6b	BLUE	_____ CHECK
4-6b	1-2	_____ CHECK
4-6b	1-15	_____ CHECK
4-6b	SPECIAL	_____ CHECK
4-6b	COMPLETE	_____ CHECK
4-6d	2 $\pm$ 1 MINUTES	_____ RECORD
4-7	ALL VOLTAGES SET	_____ RECORD
4-7d	-150 $\pm$ 8	_____ CHECK
4-7j	-150 MAGNITUDE $\pm$ 0.5 VOLT	_____ RECORD
4-7k	TWICE -150 MAGNITUDE $\pm$ 5 VOLT	_____ RECORD
4-7l	.00333 TO -150 MAGNITUDE $\pm$ 0.005 VOLT	_____ RECORD
4-8g	"ADJ SCALE" BETWEEN 3 AND 9	_____ RECORD
4-8h	"ADJ ZERO" HAS 90 ⁰ MARGIN	_____ CHECK
4-8i	"COARSE ZERO" BETWEEN 3 AND 9	_____ RECORD
4-8j	-0.090 TO -0.098	_____ RECORD
4-8l	+0.090 TO +0.098	_____ RECORD
4-9d	SET TO 400 $\pm$ 1 CYCLES	_____ CHECK
4-9e	DC LEVEL BETWEEN 3 AND 9	_____ RECORD
4-9g	18V OSC OUTPUT	_____ CHECK
4-9h	35 $\pm$ 1	_____ RECORD
4-9h	50 $\pm$ 1	_____ RECORD
4-9h	100 $\pm$ 10	_____ RECORD

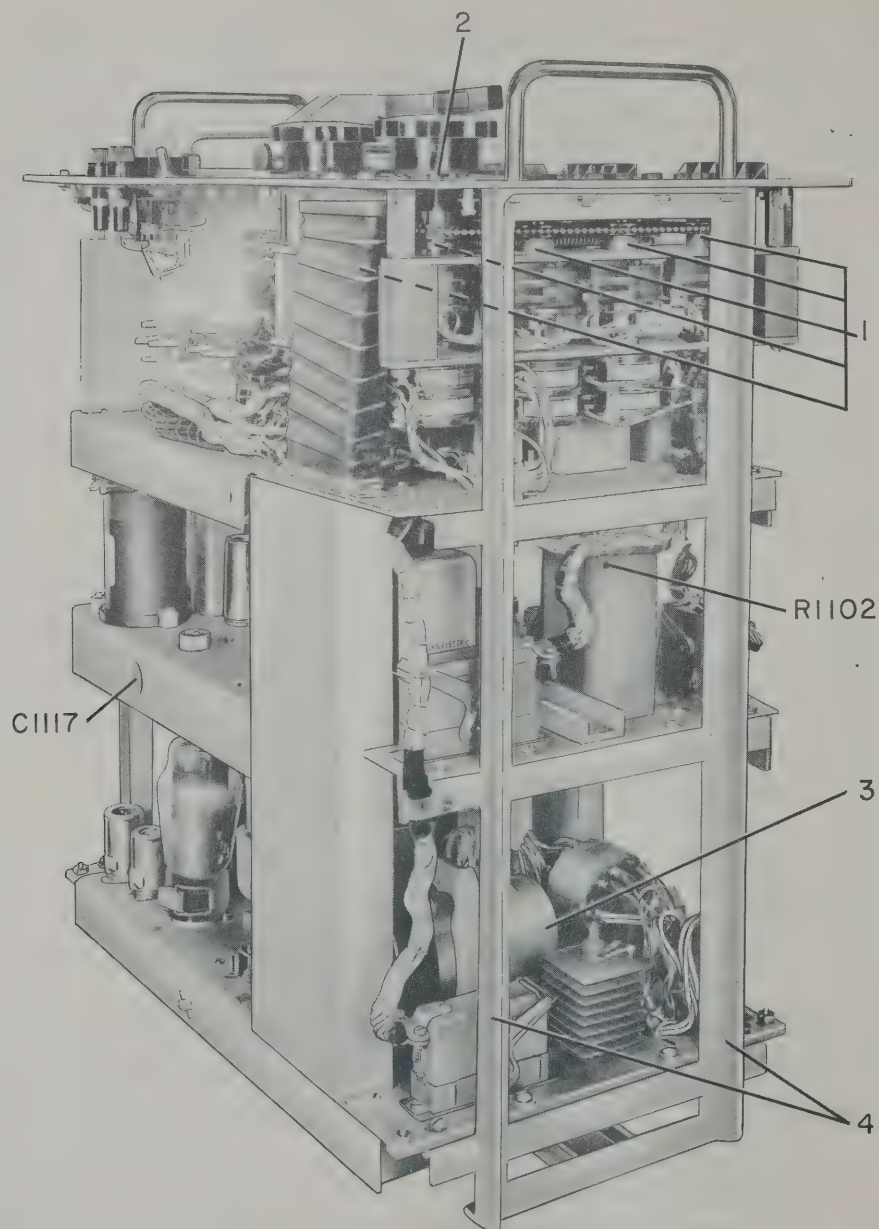


Figure 4-3. View of GS-17460 Test Set Removed from Case, Showing Lubrication Points and Two Adjustment Points

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

Section IV

Table 4-2

(Table 4-2 Cont'd)		
Test Reference	Requirements	Readings
4-9h	200 $\pm$ 10	_____ RECORD
4-9h	350 $\pm$ 10	_____ RECORD
4-9h	850 $\pm$ 10	_____ RECORD
4-10b	SCALE 100	_____ CHECK
4-10d	BELOW 75	_____ RECORD
4-10e	3.15 $\pm$ 0.15	_____ RECORD
4-10f	3.15 $\pm$ 0.20	_____ RECORD
4-11a	"ADJ" OPERATION ON "PREHEAT"	_____ CHECK
4-11b	"PREHEAT" EXTINGUISHED	_____ CHECK
4-11c	SET TO 5 VOLTS AC	_____ CHECK
4-11d	SET TO -125 VOLTS	_____ CHECK
4-11e	19 TO 37	_____ RECORD LOWEST

4-13. LUBRICATION

4-14. Points requiring lubrication on the GS-17460 Test Set are illustrated in figure 4-3. Numerals at the ends of identifying leader lines in this illustration match the numerals given in table 4-3.

4-15. Listed opposite each number in table 4-3 is the lubrication point, lubricant required, method of application, and interval of lubrication.

4-16. In figure 4-3, the number 1 lubrication points can be reached without disassembly. The number 2 point can be reached by removing the "ADJUST" control knob. The number 3 point requires the removal of the power supply panel from the test set.

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

TABLE 4-3.
LUBRICATION POINTS FOR GS-17460 TEST SET
(Refer to figure 4-3)

Identifying Number	Lubrication Point	Lubricant	Method of Application	Lubrication Interval
1	CLUTCH ASSEMBLY. (5 Bearings)	MIL-L-6085A (OIL)	Apply 2 Drops (Each)	3 Yrs. or Overhaul
2	FRONT PANEL BEARING (Through Which the Clutch Assembly Control Shaft Extends.)	MIL-L-6085A (OIL)	Apply 2 Drops	3 Yrs. or Overhaul
3	BLOWER MOTOR BEARINGS	MIL-G-3278 (GREASE)	Clean & Fill 1/2 Full; Adjacent Space 2/3 Full	3 Yrs. or Overhaul
4	GUIDE FRAME OF TEST SET (4 Sliding Surfaces)	MIL-G-3278 (GREASE)	Apply Sparingly to Sliding Surface	When Necessary

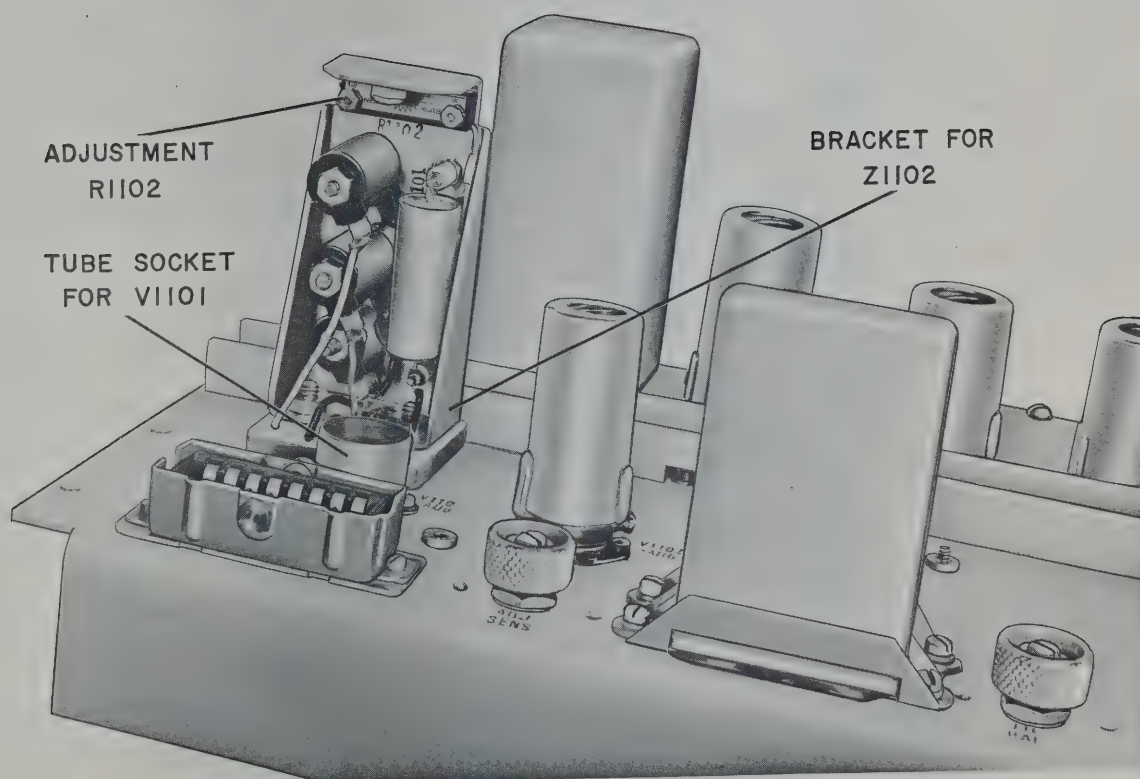


Figure 4-4. Network Z1102 with Cover Off and V1101 Removed

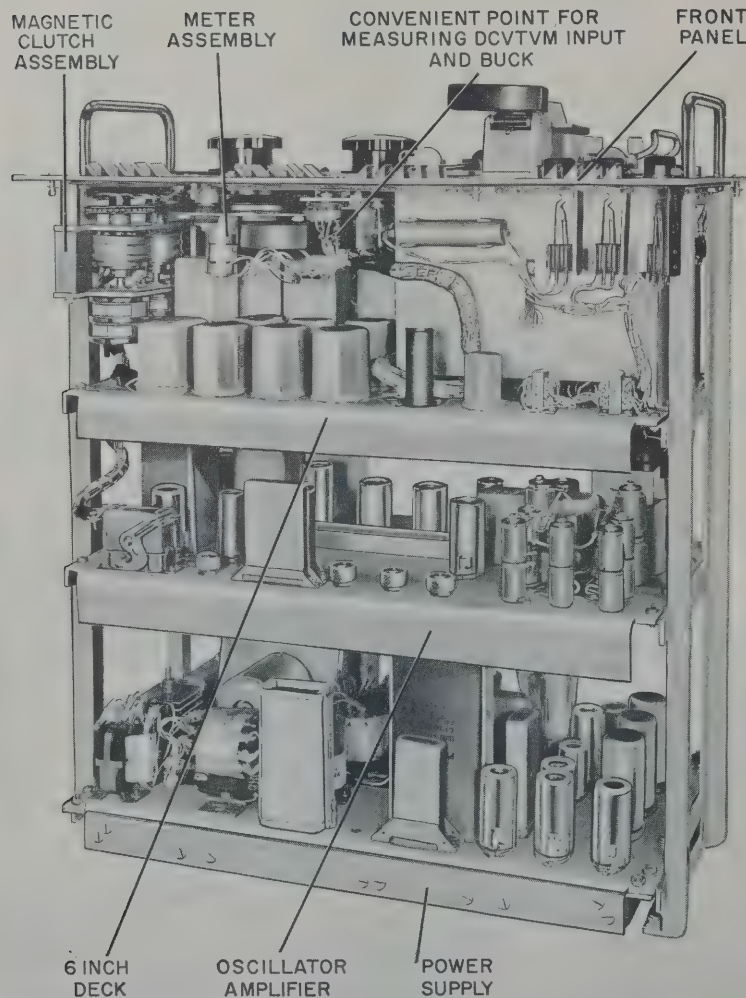


Figure 5-1. Side View of Test Set Showing Four Principal Panels

Section V

MAINTENANCE

5-1. GENERAL.

5-2. This section contains information useful in isolating and correcting troubles of the GS-17460 Test Set and its accompanying test adapters. The GS-17469 Switch Box, supplied as part of the test equipment, is an excellent trouble shooting device for the test set. Procedures for its use in testing the test set are given in Section IV. Where there is a possibility that the test set may not be functioning properly either because of an incorrect operating adjustment or a malfunction, the periodic inspection procedure given in Section IV should be followed as a preliminary step in locating trouble. Information contained in this section should be used after the trouble is localized by the procedures of Section IV or where the malfunction manifests itself in so gross a manner that its location can be definitely determined.

5-3. A thorough understanding of the theory of operation (paragraph 2-21) should prove useful in trouble shooting. Additional background information is given below in paragraphs 5-5 through 5-11 to further aid maintenance personnel in understanding the operating functions of the test set.

5-4. Schematics, wiring diagrams, and outline drawings necessary for maintaining the complete equipment are provided in figures 5-19 through 5-62. Figure 5-1 illustrates the location of the four principal panels of the test set and figures 5-2 through 5-17 are provided for general reference purposes. Figure 5-18 is a simplified connection diagram for assisting maintenance personnel in readily tracing between adapter and test set circuitry.

5-5. FUNCTIONAL OPERATION.

5-6. In testing the GS-packages with this test set there is a fundamental uniformity of approach in all cases. Knowing the unit to be tested, the appropriate test adapter is selected and inserted into the test set. The test set is connected to the 400-cycle supply and turned on for at least 30 minutes to stabilize at the

operating level. (If necessary this time may be omitted if the additional adjustments and readjustments can be tolerated.) Then a package is plugged into the test adapter receptacle and clamped there with the toggle clamp.

5-7. Preliminary checks and adjustments may be made after the test set has had sufficient time to stabilize or, if necessary, as soon as power is applied. In either case the power supply voltages and the VTVM zero adjustment may be checked and adjusted. This is done by operating the pushbuttons and adjusting the associated screwdriver potentiometers. Before the "TEST" switch is rotated to zero, no heating of the filaments or control operation takes place. The meter is centered and displays the meter zero adjustment. When the "TEST" switch is set to the zero position, filament voltage is supplied to the package under test, the "PREHEAT" light comes on, the # 1 clutch is operated, and the meter indicates the applied filament voltage. At the same time, the red "ADJUST TO LINE" light comes on instructing the operator to set the "ADJUST" control knob so that the meter pointer coincides with the "ADJUST LEVEL" line. This sets the filament voltage to 6.3 volts as read by the internal AC VTVM.

Note

If the "TEST" switch is moved from zero while the "PREHEAT" light is on, the filament voltage is removed and all lights again go off. This prevents beginning tests before the end of the 2-minute "PREHEAT" interval. Since the 2-minute timer is thermal, however, little loss of time results if the switch is immediately restored to zero.

At the end of 2 minutes, the "PREHEAT" light extinguishes but the red "ADJUST TO LINE" light remains on to permit filament voltage measurement whenever desired by returning the "TEST" switch to zero. When the "PREHEAT" light goes out, -150 volts is applied to the package under test. At step 1, +150 and +300 volts are applied.

5-8. At this point, actual testing of the package is begun. The "TEST" switch is rotated one step at a time and the lights and meter are observed. For every

position some instruction light should be on. If it is a green, yellow, or blue light, the meter must indicate in the corresponding color zone; the "ADJUST" control knob is declutched and cannot alter any reading. The scale markings are for reference or record purposes only and are only significant in themselves for readings with the "GREEN LIMIT" light. For these and these readings only, the nominal value is 100 on the scale; the limits are 90 and 110. The voltage being observed may be calculated from the formula

$$E_R = E_N \left[1 + \frac{(R-100)P}{1000} \right]$$

where E_N is the nominal voltage, P is the permissible deviation from nominal in percent, R is the observed scale reading, and E_R is the voltage being read. As an example, if the reading is 80, nominal voltage is 50 volts, and the permissible deviation is $\pm 20\%$:

$$\begin{aligned} E_R &= 50 \left[1 + \frac{(80-100)20}{1000} \right] \\ &= 50 (1 - .4) = 30 \text{ Volts} \end{aligned}$$

5-9. When all tests on a package have been completed, all remaining positions of the test switch cause the "TEST COMPLETE" label to be illuminated. The meter display is again restored to mid-scale, the "ADJUST ZERO" position. This repeated display of DC zero adjustment has been arranged to encourage frequent monitoring and checking of this adjustment since, like all DC zero adjustments, it is susceptible to drift until complete equilibrium temperature conditions have been reached.

5-10. Some of the packages have so many tests that the 16 active test positions of the "TEST" switch are inadequate. Wherever this occurs, however, the package has two identical channels and a large number of tests result from performing identical tests on each channel. To handle this situation without providing a larger "TEST" switch, circuitry is provided to change input and output connections from the first to second channels upon conclusion of the first complete switch rotation. The "REPEAT 1-15" label is illuminated and the channel transfer is completed upon return to position 1. The second time around the "TEST COMPLETE" label comes on in the normal fashion upon completion of all the required tests. Package removal restores the relays so that channel 1 is again examined for first time around on the next package.

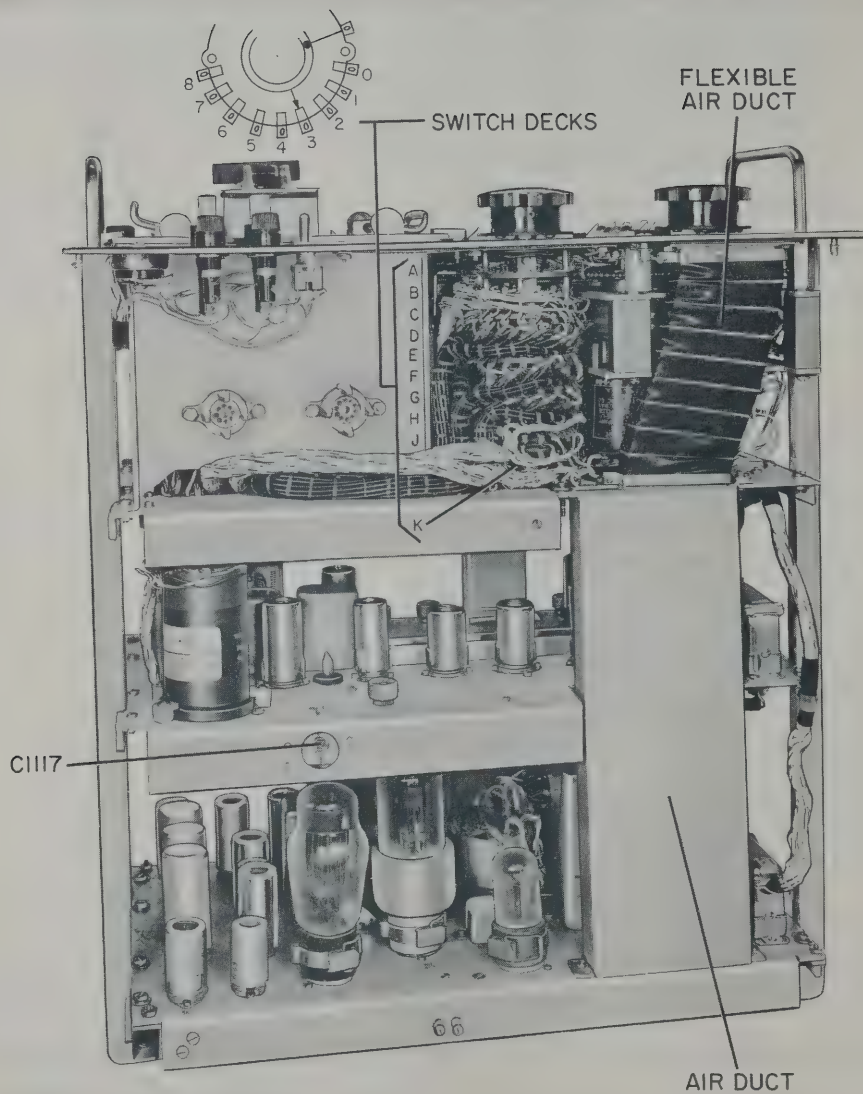


Figure 5-2. Side View of Test Set Showing Test Switch S1002

Note

To facilitate repeating the tests on one package without requiring preheat delay a "PUSH TO RETEST" button is provided on these adapters to restore channel 1 operation without removing the package.

Some packages have interactive adjustment requirements of the balance-and-adjust bias variety. To handle these packages the "REPEAT 1 & 2" label is provided. The tester should repeat 1 and 2, adjusting each time, until he finds both readings adjusted and no further change is required.

5-11. A "SPECIAL TEST" label is provided as a spare to handle possible future test needs. (When the switch box is being used, it is connected as an indicator of the operation of the channel relays.)

5-12. REMOVAL OF TEST SET CASE. To release the test set (figures 5-1 and 5-2) from the case, release the four Dzus fasteners at the bottom of the case and the eight Dzus fasteners on the front panel. The test set can then be lifted from the case. This operation requires at least two men, one to lift the test set and one to hold the case.

5-13. REMOVAL OF OSCILLATOR-AMPLIFIER PANEL.

5-14. In order to remove this panel disconnect the two connectors attached to J1101 and J1102 and release the eight screws along both ends and the two screws on the under side which fasten to the air duct.

5-15. REMOVAL OF POWER SUPPLY.

5-16. In order to remove the power supply, remove the flexible air duct section (figure 5-2) and take out the metal air duct by removing the two screws at each end. Disengage the connector attached to J1201 and remove the eight screws which fasten the power supply to the side of the frame.

5-17. REMOVAL OF METER ASSEMBLY.

5-18. Remove the oscillator-amplifier panel. Unscrew the three support screws which fasten the meter assembly to the test set. Two of these screws are accessible through two holes in the 6-inch deck provided for this purpose. The third screw is readily available from the top rear side of the front panel.

5-19. TROUBLE SHOOTING THE POWER SUPPLY. (Refer to table 5-1 and figures 5-3, 5-4, and 5-21).

5-20. Since the G-233957 Power Supply contains "tracking" type regulators, any difficulty in one regulator circuit results in changes of voltage in the other two regulators. Trouble shooting of the power supply is only possible after the regulators are separated. The procedure for trouble shooting is as follows:

- a. With power off, remove the "valve" tube (V1205, V1208, or V1211) from one of the regulators.
 - b. Obtain another power supply of identical voltage to that of the disabled regulator.
 - c. Connect this power supply to the output of the regulator disabled in step 1.
 - d. Energize both the test set and the auxiliary power supply.
 - e. Measure voltage outputs on all three voltage busses (+300, +150, and -150V), adjusting the voltage level controls on the test set front panel if possible. If the malfunctioning regulator was disabled in step 1, the three voltage outputs should all be normal.
 - f. If normal operation was not possible with replacement of the regulator chosen on the first attempt, remove another "valve" tube and try again until the regulator or regulators are found which need to be disabled and replaced by external supplies.
 - g. With all bus voltages normal, probe through the circuits of the disabled regulator or regulators, checking DC voltages and, if necessary, the gain per stage (as given in paragraph 2-27 through 2-34) until the malfunction is located.
-

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

Section V
Table 5-1

TABLE 5-1
VOLTAGE READINGS
G-233957 Power Supply

Note

All measurements were made from tube pin to chassis ground unless otherwise indicated and with the switch box removed from the test set.

Tube No. Tube Type	Pin Number								
	1	2	3	4	5	6	7	8	9
V1201 5R4WGY									
V1202 5852									
V1203 5670	6.3AC	+4.5V	0V	+15V		+150V	GND	+4.5V	GND
V1204 5654	+149V	+150V	+150V 6.3AC between pins		(+220V) +295#	+200V	+150V		
V1205 6AS7G	+220V	+435V	+300V	(+220V) +295#	+435V	+300V	6.3AC between pins		
V1206 6141	GND			+110V			+120V		
V1207 5751	+150V*	-1.2V	+1V	6.3AC to pin 9		+220V	-4.5V	+4V	6.3AC to pins 4 & 5
V1208 5686	+2V	-13V		GND	6.3AC	+240V	+240V	+1.0V	
V1209 5670	-150V 6.3AC to pin 9	-66V	-72V	+150V		-1.3V	-6.7V	-66V	-150V 6.3AC to pin 9
V1210 5654	-1.3V	GND	GND	6.3AC	+142V	+50V	GND		
V1211 5686	+150V	+142V		+150V 6.3AC between pins		+300V	+300V	+150V	

* Varies with tube condition.

Loading effect of the measuring VTVM will change the voltage to approximately this value.

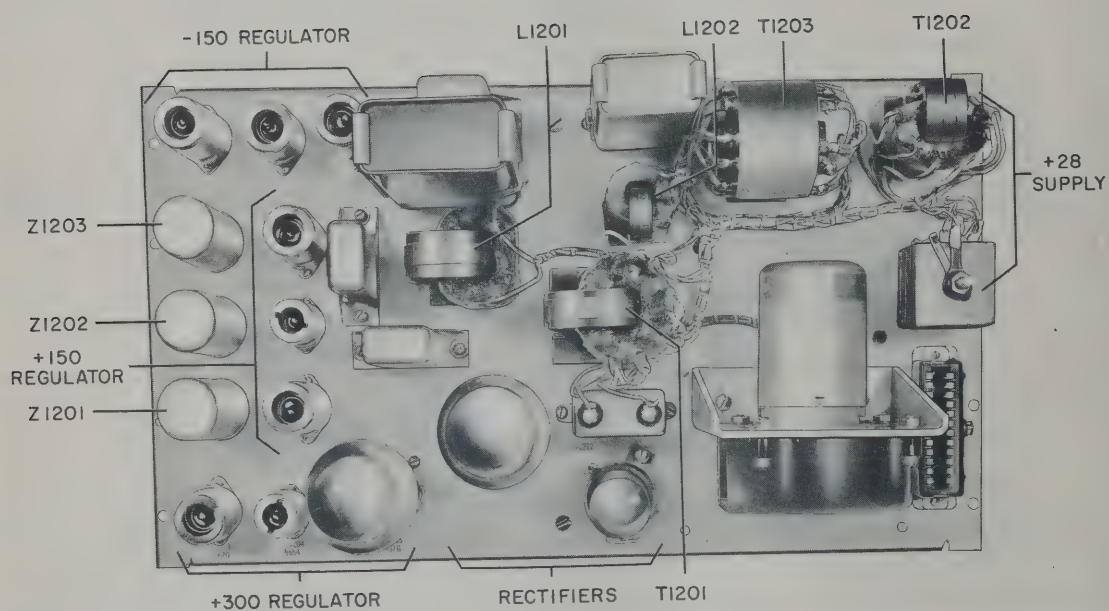


Figure 5-3. Power Supply, Top View

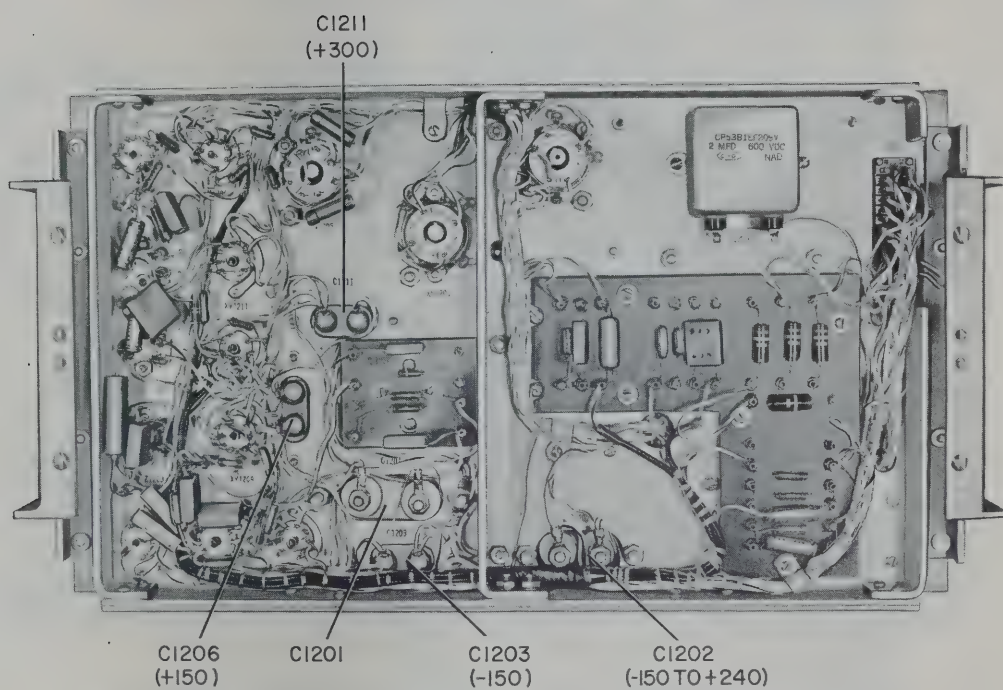


Figure 5-4. Power Supply, Bottom View

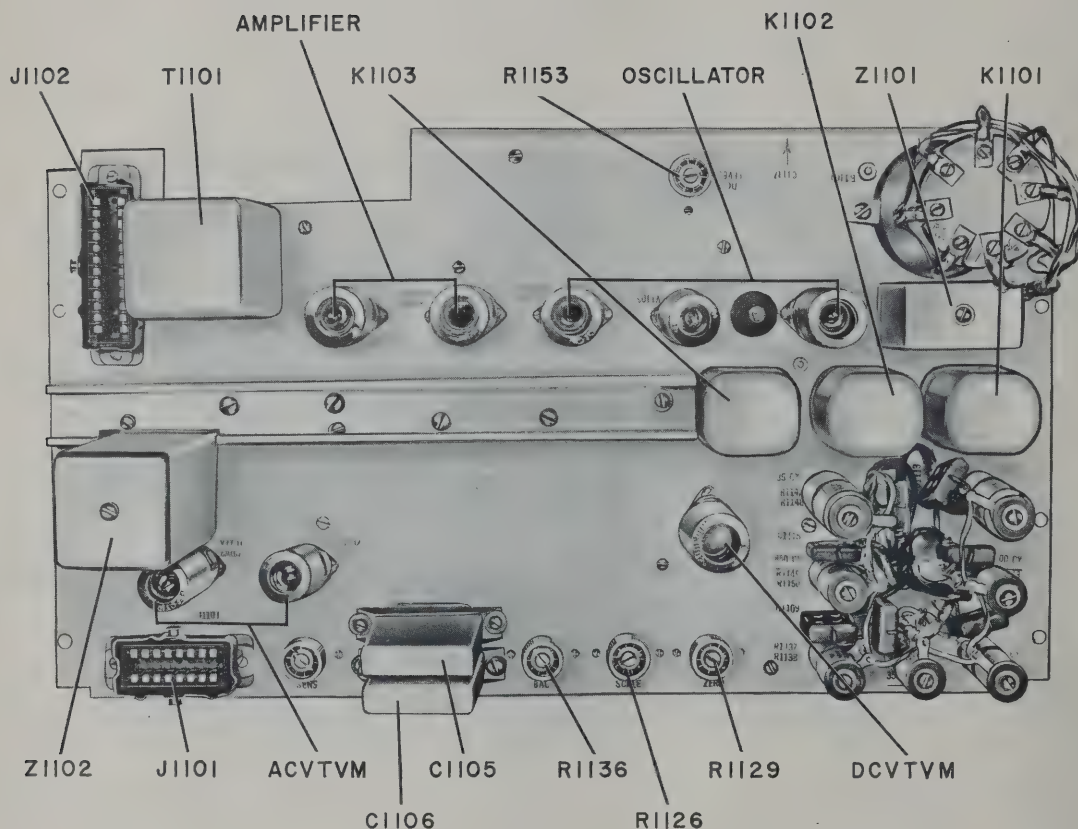


Figure 5-5. Oscillator Amplifier Panel, Top View

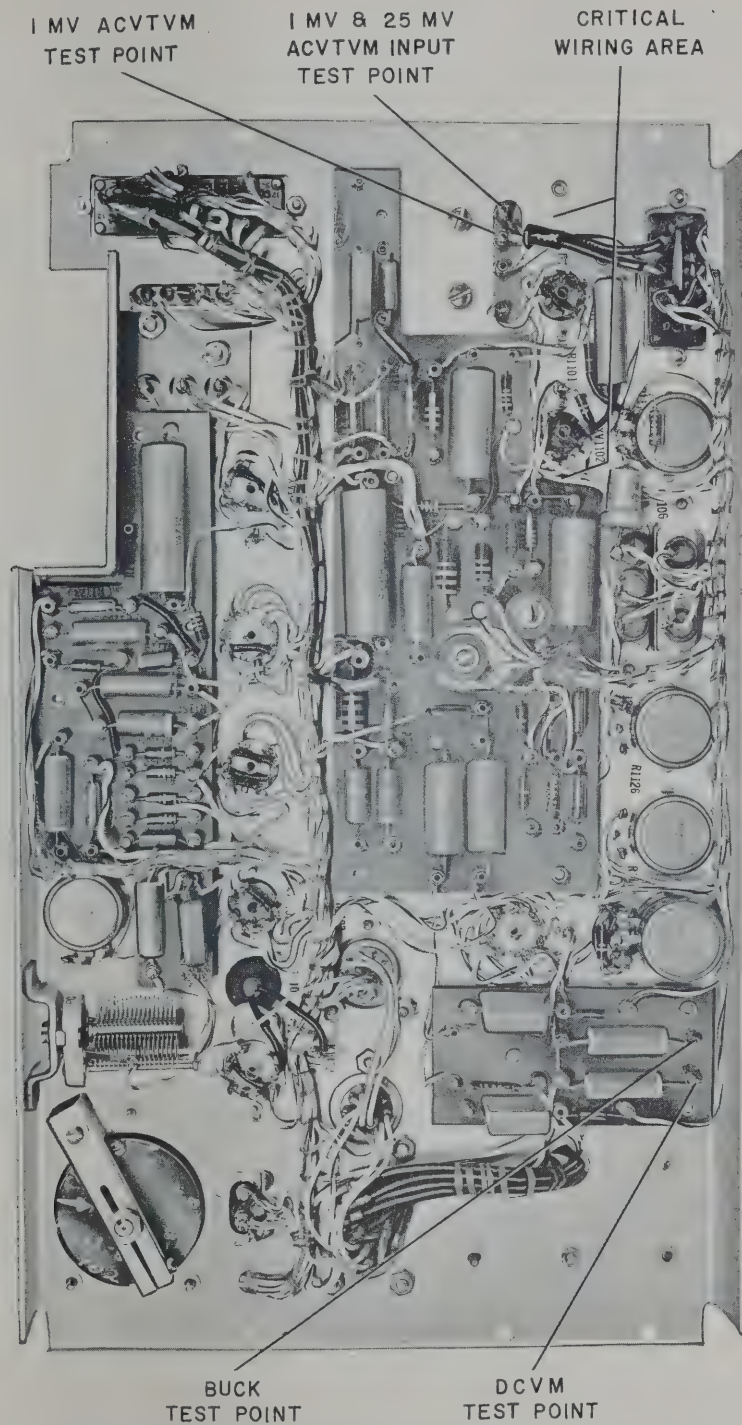


Figure 5-6. Oscillator Amplifier Panel, Bottom View

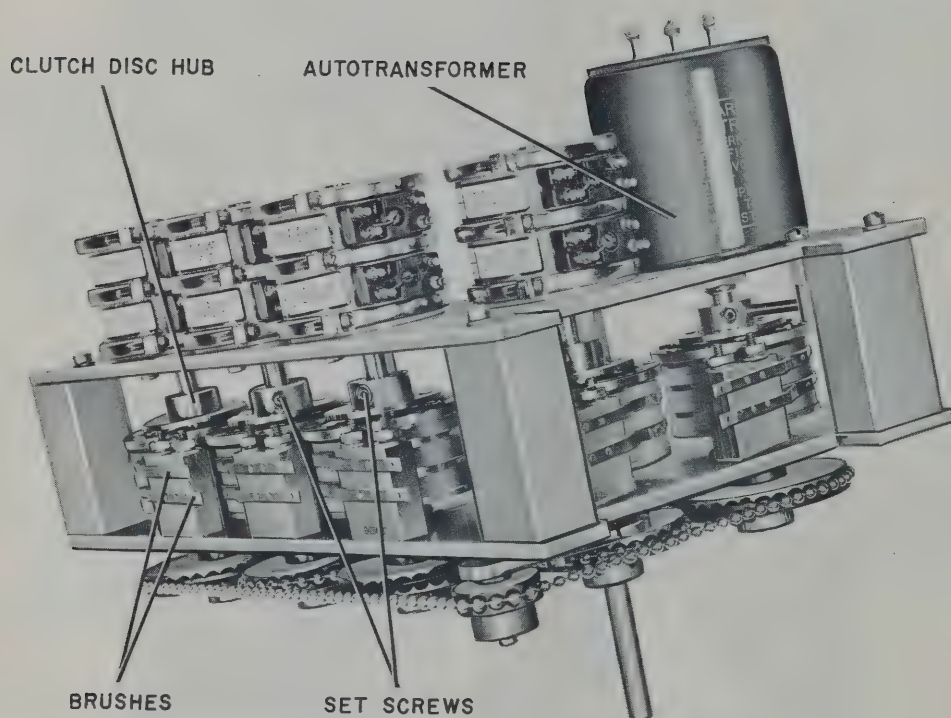


Figure 5-7. Magnetic Clutch Assembly Showing Adjustment Points

Note

The gain per stage is measured by injecting some measured AC or DC from a low impedance source into the input grid of any stage and measuring the output variation. Gain is obtained by dividing the input voltage change into the output voltage change. Gain can, in general, be measured only on disabled regulators, i.e., the "valve" tube must be pulled.

5-21. TROUBLE SHOOTING THE OSCILLATOR AMPLIFIER (Refer to figures 5-5, 5-6, and 5-20.)

5-22. Trouble shooting of the oscillator-amplifier panel is best accomplished by using the DC voltage measurements given in table 5-2 and the gain per stage data given in the Theory of Operation, Section II. For feedback amplifiers, gain per stage data can only be taken if feedback is disabled or disconnected. In the AC VTVM circuit this can be accomplished by setting "ADJ SENS" potentiometer (figure 4-2) to maximum (zero feedback). For the oscillator (V1104, V1105, and V1106) and the amplifier (V1107 and V1108) the feedback may be eliminated by applying test signals to the grid of the tube to be checked from a low impedance source. For examination of the amplifier gain, for instance, the voltage across a 100-ohm resistor driven by some external oscillation should be sufficiently low for this purpose. As an example, feed-back resistor R1174 has a value of 475,000 ohms; using a 100 ohm resistor, only $1/4750$ of the feedback signal adds to the input from the oscillator which is only .02%, or negligible. The oscillator should be off during such testing, i.e., no relays should be actuated.

Note

For all gain measurements, input voltages must be low enough to prevent overloading of the tubes being measured.

5-23. TROUBLE SHOOTING THE MAGNETIC CLUTCH ASSEMBLY

5-24. Each brush (figure 5-7) of the magnetic clutch assembly should exert between 15 and 35 grams of pressure on its associated slip ring to insure adequate wiping

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

TABLE 5-2

VOLTAGE READINGS

G-234543 Oscillator Amplifier

Note

These voltage measurements were made with the GS-17469 Switch Box inserted into the test set. Measurements on the AC and DC vacuum tube voltmeter tubes V1101 - V1103 were taken with all switches of the switch box in the "OFF" position. Measurements in the audio oscillator-amplifier section (tubes V1104 - V1108) were taken with the "OSC FREQ" switch set at 350 cycles. Tube V1107 and V1108 measurements were taken with "LIGHTS - CLUTCHES" switch set on clutch "2 AC" and with maximum AC input supplied to the tubes through the use of the "ADJUST" control knob. All measurements listed below were made from tube pin to chassis ground unless otherwise indicated.

Tube No. Tube Type	Pin Number								
	1	2	3	4	5	6	7	8	9
V1101 6AU6	*	+0.5V	6.3V AC from pin 3 to pin 4		+80V	+50V	+5V		
V1102 6AH6		+3V	6.3V AC from pin 3 to pin 4		+115V	+175V	+3V		
V1103 5755	+285V	+2.5V		6.3V AC from pin 4 to pin 5			+2.5	+285V	
V1104 5751WA	+150V	OVDC 2.6AC	+1V 2.6AC	6.3V AC to pin 9		+120V 0.5AC	OVDC 2.6AC	+1V 2.6AC	6.3AC to pins 4 & 5
V1105 6AU6WA	-3.5V 0.2AC	GND	6.3V AC from pin 3 to pin 4		+175V 35V AC	+150V	GND		
V1106 5670WA	6.3AC to pin 9	OVDC 8AC	OVDC -3V# 8AC	+150V		+150V	OVDC -3V# 8AC	OVDC 8AC	6.3AC to pin 1
V1107 5670WA	6.3AC to pin 9	+95V 4.5AC	+95V 5AC	+200V 4.5AC		+95V 5AC	ODC **		6.3AC to pin 1
V1108 5414WA	+300V 40AC	OVDC 4.5AC	+12V	6.3V AC to pin 9		+300V 40AC	OVDC 4.5AC	+12V	6.3AC to pins 4 & 5

* No AC input.

** With "CLUTCHES - LIGHTS" switch of switch box set on "2AC", this voltage may be varied from 0 to .25 volts by rotation of "ADJUST" control knob.

Loading effect of the measuring VTVM will change the voltage to approx. this value.

action and satisfactorily low contact resistance between brush and slip ring. This may be measured as follows:

CAUTION

Do not attempt to adjust clutches with the power on and the red light inserted. Any accidental ground contact on the brush contact will burn out the red light.

a. Remove red light and connect a suitable ohmmeter across the clutch to be adjusted. When in contact, the resistance across the clutch should be approximately 140 ohms (390-ohm clutch, 220-ohm resistor).

b. Pull gently with a calibrated scale on the end of the brush spring until the resistance jumps up to 220 ohms. The pull required should be between 15 and 35 grams.

Note

If a calibrated scale is not available a weight attached to the brush spring with a string may be used.

c. Adjust brush springs by bending until the 15 to 35 gram requirement is met.

5-25. Proper attraction between the energized clutch and the clutch disc is possible only if both parts are parallel and if the "relaxed" spacing is not too great. There must be a space of 15 to 20 thousandths of an inch, however, or else false operation of clutches results due to inductive pickup from adjacent clutches. To set the clutch disc on the shaft of the potentiometer or variable autotransformer proceed as follows:

a. Remove the meter assembly according to paragraph 5-17.

b. Insert the G-235411 Shim (figure 1-4) between the clutch disc and clutch (figure 5-9).

c. Loosen the set screws (figure 5-7) on clutch disc and push the clutch disc against the shim.

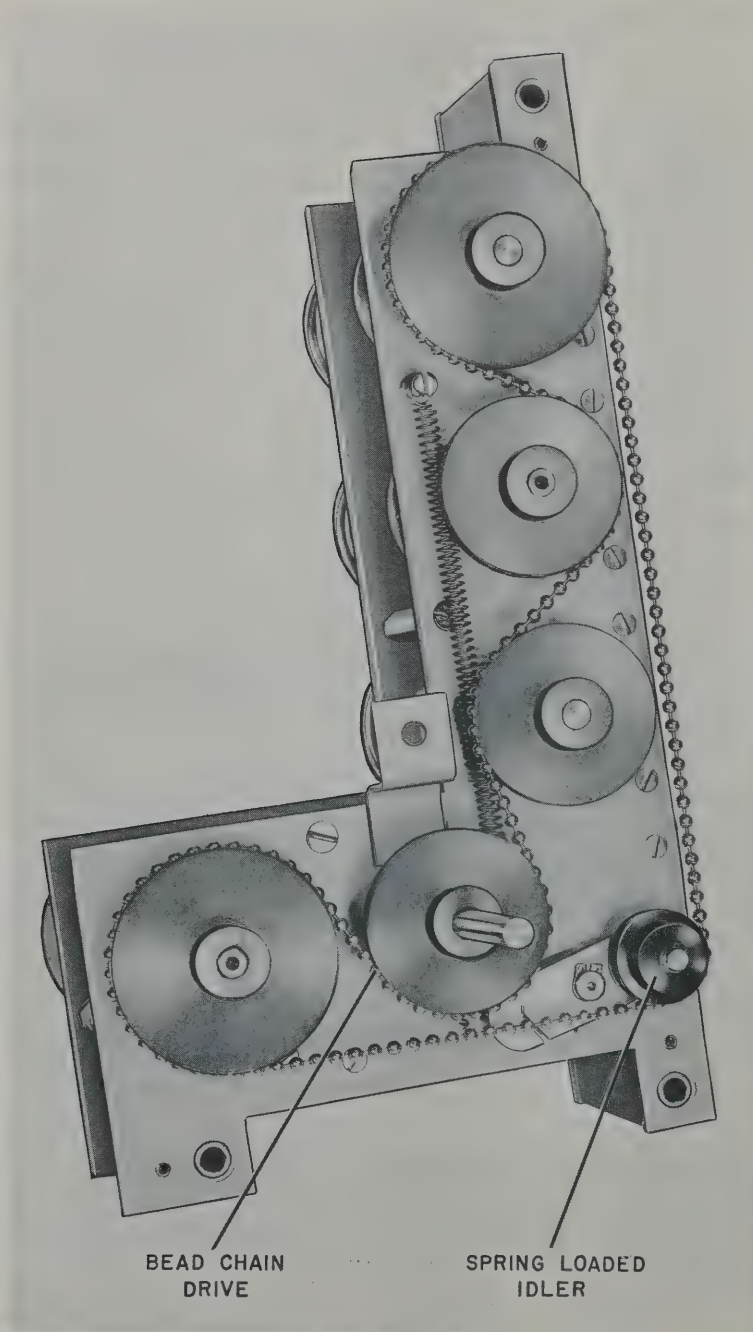


Figure 5-8. Magnetic Clutch Assembly Showing Bead Chain Path

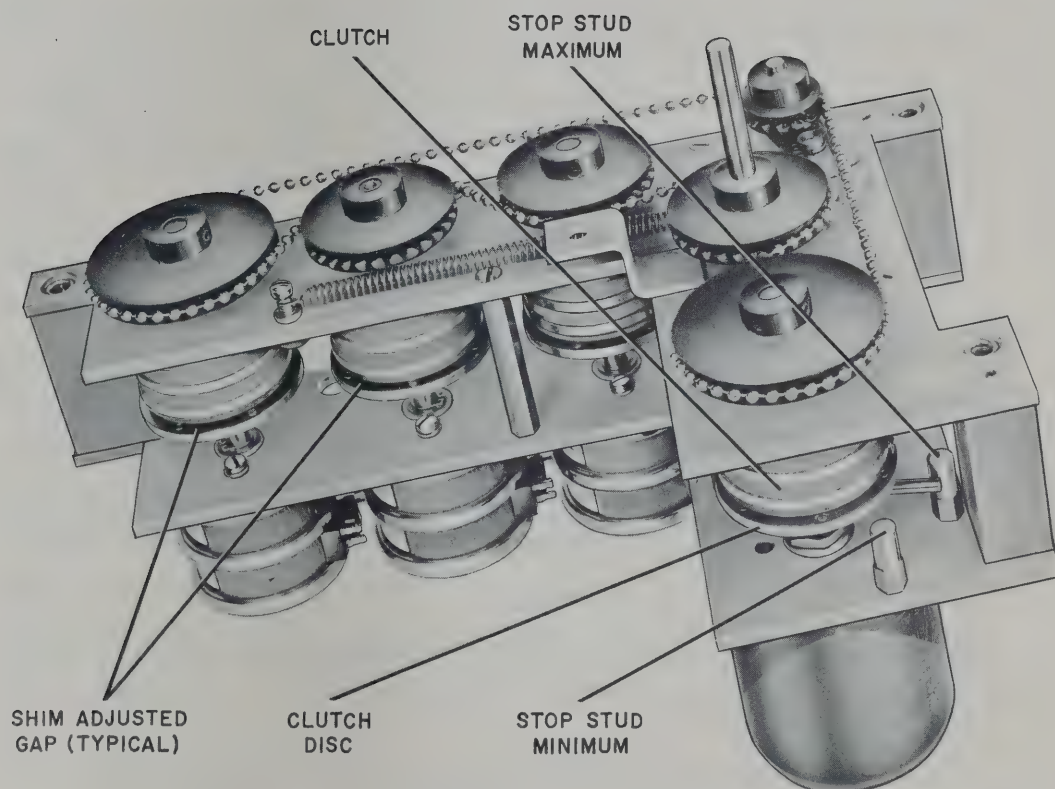


Figure 5-9. Magnetic Clutch Assembly Autotransformer Stops

d. With slight upward pressure on the clutch disc hub, keep the clutch disc in contact with the shim and the shim in contact with the clutch; the spring portion of the clutch disc assembly should have either no deflection or only slight bending.

e. Tighten the set screws carefully to retain the hub in this position, bringing each set screw into maximum pressure by alternating tightening turns to avoid cocking.

f. Remove the shim and check that no appreciable tilting or cocking is present.

g. Energize the clutch and verify that operation is satisfactory; energize adjacent clutches and turn the bead chain drive (figure 5-8). No motion of the unenergized clutch disc should occur.

5-26. The stop studs (figure 5-9) on the magnetic clutch assembly are provided so that, in conjunction with the pin projecting from the hub of the autotransformer clutch disc, the filament voltage adjustment range is limited to approximately $6.3 \pm .7$ volts. This should be sufficient to cope with variations in both line voltage and filament load, and insures that a minimum of 5.5 volts is applied during the "PREHEAT" interval. If insufficient range of autotransformer adjustment cannot be attained because the available line voltage is lower than 112 or higher than 122 volts a greater range may need to be provided. This is accomplished as follows:

a. Remove the rubber flexible air duct (figure 5-2). Remove the "maximum" stop stud adjacent to the air duct.

b. Insert the switch box or adapter that caused adjustment trouble and note whether the range of adjustment of the filament adjust control is too high or too low, i.e., whether the nominal needs to be shifted up or down.

c. Using the switch box, measure the no-load filament voltage with maximum counterclockwise rotation of the "ADJUST" knob. This should place the stop pin against the "minimum" stop stud. This no-load filament voltage is set at the factory to approximately 6.3 volts (3.1 volts each side). Reset the clutch disc on the autotransformer shaft to this value if the voltage is too high.

d. If the difficulty was too high an adjustment range, this resetting of no-load minimum voltage to 6.3 volts should remedy the situation. Replace the maximum stop stud previously removed and reattach the air duct.

e. If the original difficulty was a low voltage adjustment range, do not replace the stud in the original hole. It may either be replaced in the adjacent hole which is farther towards maximum voltage, or it may be left out and the internal stop of the variable autotransformer may be used. To check what maximum stop is needed proceed as follows:

(1) With maximum stop pin removed, and the adapter which has the lowest filament voltage inserted (with package), rotate the "ADJUST" knob clockwise until voltage on filaments in adapter is 6.3 volts (3.15 volts one side). This should be done with the line voltage at its lowest expected value.

(2) Observe the pin position. If the stud may be inserted in the "maximum" hole and still clear the pin, fasten the stud through this hole. If it does not clear the pin, leave the maximum stop out and use the internal maximum stop. This increased maximum adjustment range should be sufficient to cover all requirements unless line voltage is exceedingly low.

Note

To retain the maximum stop stud for future use, it may be fastened to the panel in one of its holes with the stop on the opposite side of the panel.

5-27. If resetting of the clutch disc was necessary, use should be made of the shim to re-establish 20-mil spacing.

5-28. TROUBLE SHOOTING THE ADAPTERS. (Refer to figures 5-11 through 5-16)

5-29. When trying to locate a trouble on any of the adapters the meter reading should be compared with the calculated indication using known or measured inputs or outputs of the packages and the formulas given in paragraphs 5-33 through 5-48. If performance is not found to be within tolerance specified, further trouble

shooting should be performed using the voltage fractions given on the adapter schematics (figures 5-22 through 5-30). For example:

a. If the nominal DC output of a package is 4 volts, and the package sample available measures 3 1/2 volts, a reading of 95 may be calculated by the formula. If the meter does not read this value, examination of the schematic will reveal a voltage fraction such as $\frac{0.125V}{4.00}$. Set the output of the package exactly to 4 volts and the DC VTVM input should read .125V. [If desired, of course, the output may be left at 3 1/2 volts in which case the DC VTVM input is $\frac{3.5}{4} (.125) = .109V$.] If the sampling point (DC VTVM probe points, figure 5-1) is the correct fraction of the package output, look elsewhere for the trouble. If the ratio is incorrect, look for changed resistors, open contacts, broken leads, etc., in the adapter.

b. An AC output of 85 volts expected value is found to be high. The input voltages are examined and one AC input is found to be abnormally high, i.e., is greater than the voltage marked on the schematic for the particular lead going to the connector - switch position being used on the test in question. This input voltage comes from a resistance divider in the adapter. Examination of other points on the divider may reveal the nature of the trouble. A point on the divider bearing a ratio such as $\frac{25 \text{ mv}}{17V}$ is usually the control point of the divider and should give 25 mv (or other specified value) when the oscillator is adjusted to exactly 17 volts on the high side of the divider. (Refer to figure 5-6 for the AC VTVM probe points.) This, of course, is usually done in some previous step before the one where an input voltage is fed to a package. Again continue examination of voltages, adapter resistances, and lead or connector continuity until the trouble is located.

5-30. The nominal 0.5-volt voltage only really measures 0.5 volts when an adapter is inserted in the test set that presents a load of 500 ohms. A quick check should be made of all resistance dividers from the +0.5 volt line by measuring the voltage on the +0.5 volt terminal of TB1001. Open resistors in the adapter cause the voltage to rise to a high of +1.0 volt. An open adapter load also shows up as a low meter reading (near 60) when adjusting filament voltage due to the higher than normal buck voltage.

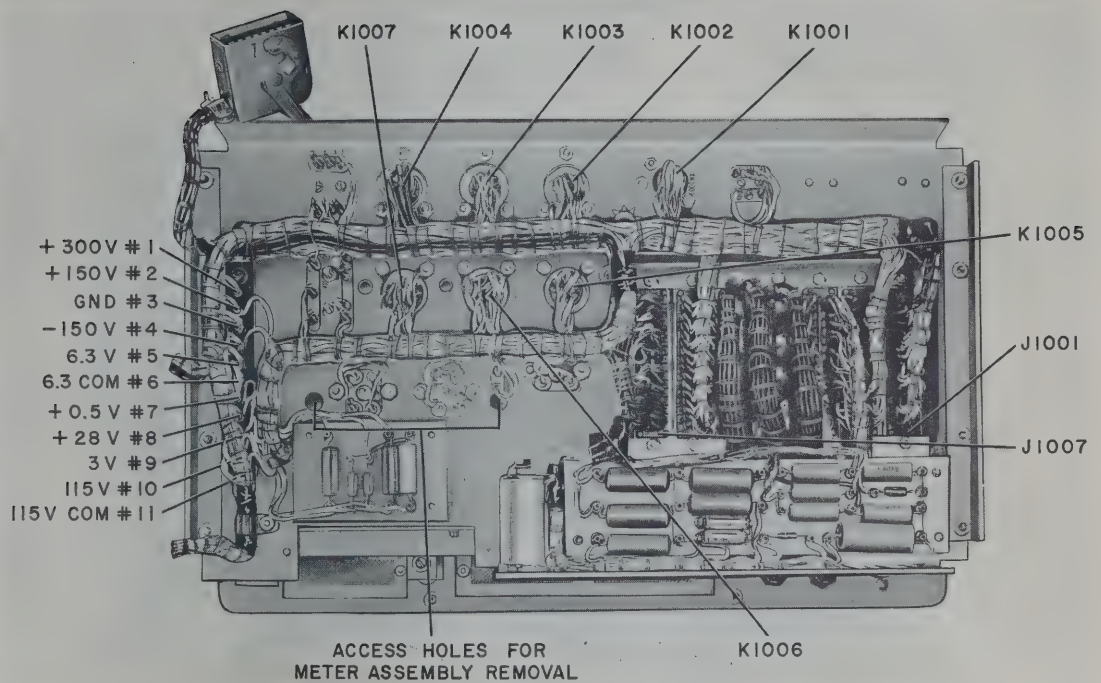


Figure 5-10. Six Inch Deck, Bottom View

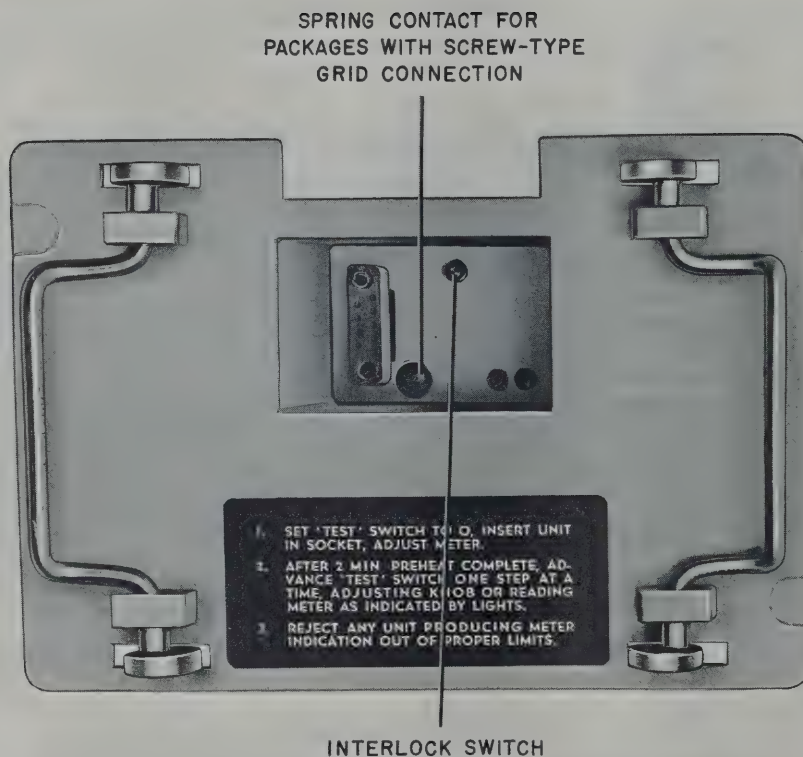


Figure 5-11. Typical Adapter, Front Panel View

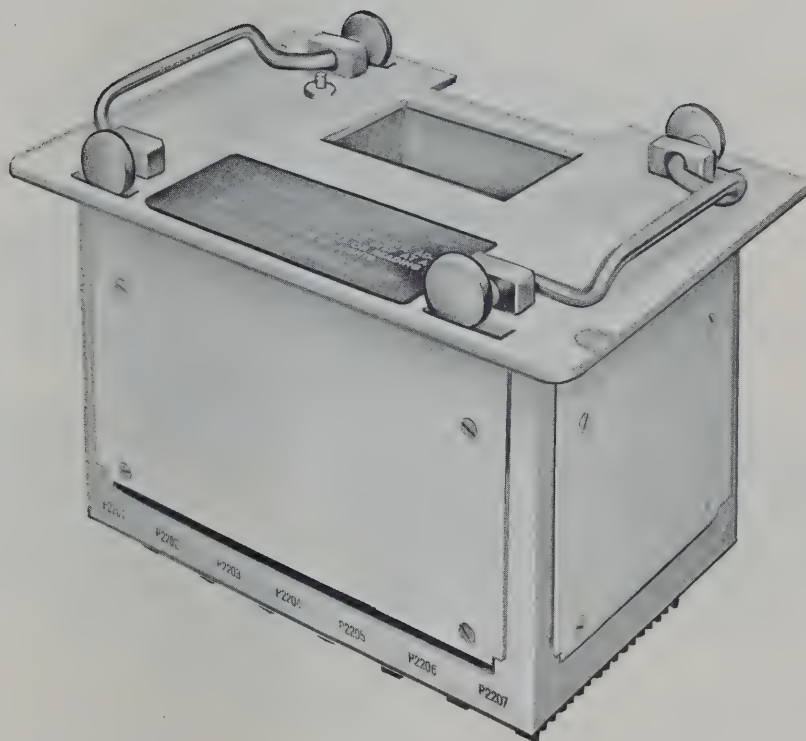
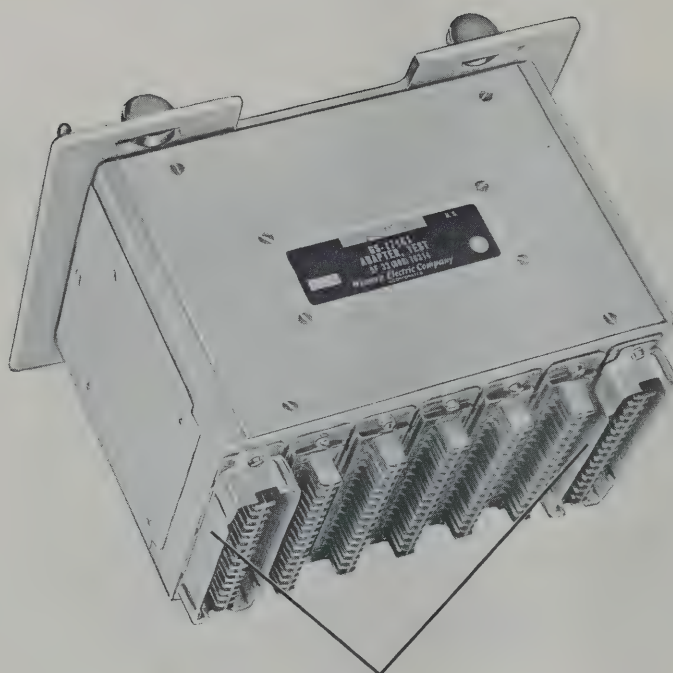


Figure 5-12. Typical Adapter, Hinged Doors Closed



CONNECTOR SHELLS FOR
MECHANICAL PROTECTION

Figure 5-13. Typical Adapter, Rear View

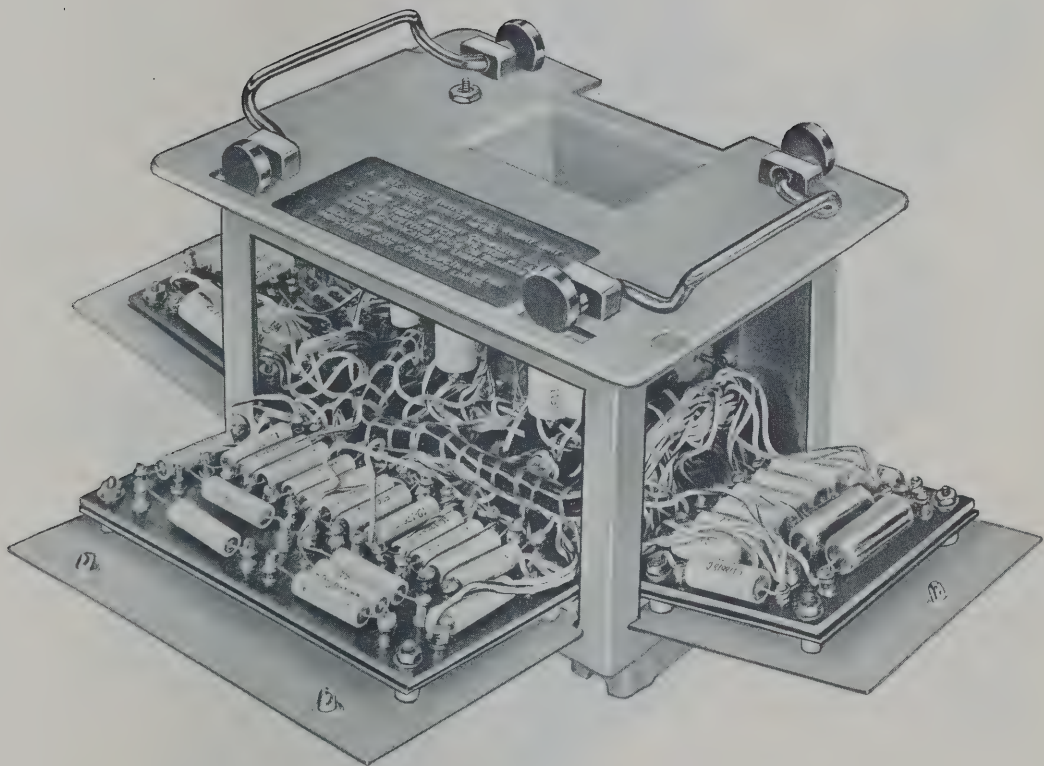


Figure 5-14. Typical Adapter, Doors Open for Servicing

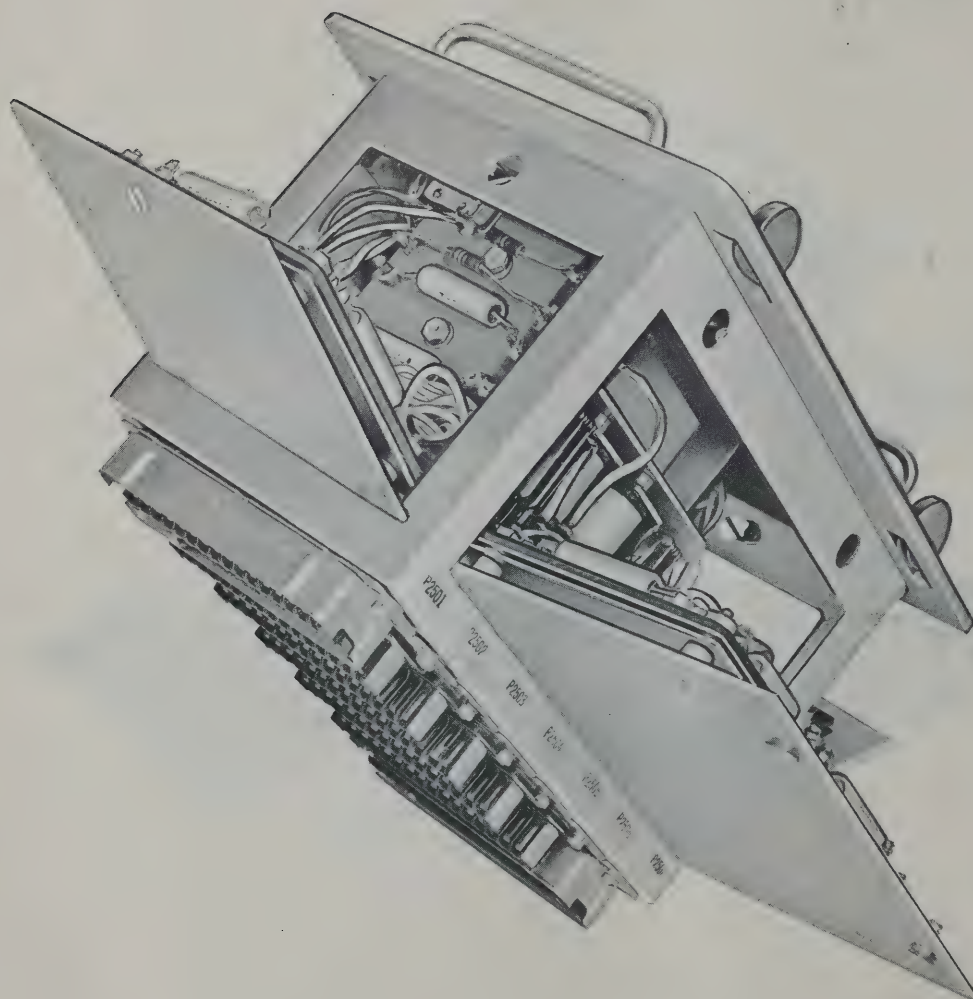


Figure 5-15. GS-17465 Adapter Showing Relays and Interior Terminal Board

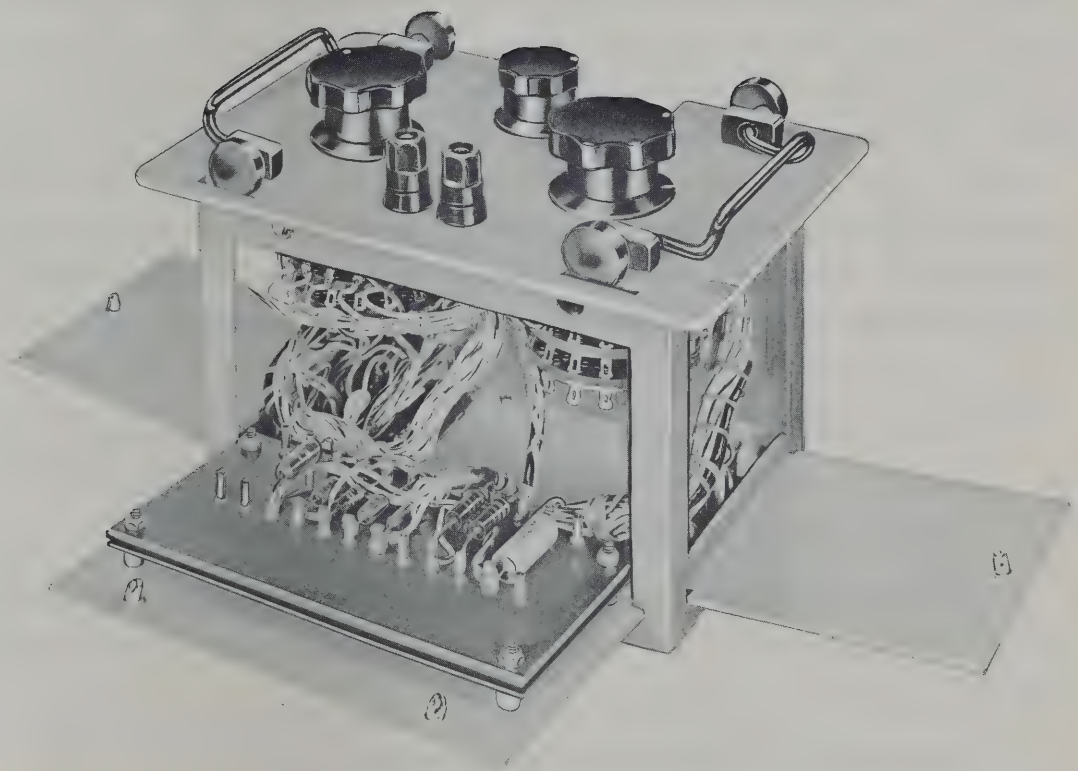


Figure 5-16. Switch Box, Interior

5-31. TESTING THE COMPLETE EQUIPMENT.

5-32. Testing of this equipment may be accomplished by two alternate methods. One method is to insert packaged amplifiers of known characteristics into the adapters and to verify that the complete equipment indicates the known values within required tolerances. The second method is to use packaged amplifiers of good but non-measured characteristics. These packages are connected into the adapters and all inputs and outputs are measured for each test position to be investigated. This can often be accomplished by attaching a voltmeter to one of the swingers or contacts of the large switch S1002 (figure 5-2) which has been located near the edge of the case to facilitate such trouble shooting. For some tests, the input and output of the package will not be available except on the inside of the adapter. To take a measurement from such points, either a short six-inch patch cord may be used to get the package voltage out of the adapter well, or a thin lead may be attached to the point in question and brought out of the adapter in such a way that the adapter may be inserted in the test set. Removal of the adapter nameplate or rear plate may be necessary if a thin lead is used.

Note

Noise readings or any other similar AC readings are susceptible to an increase in pickup by the addition of such leads and caution should be used in evaluating AC tests with long leads.

In either event, testing with a package reveals the performance of each test adapter inserted into the test set, and determines the over-all accuracy of the combined equipment.

5-33. TESTING WITH GS-15434 AMPLIFIER SUBASSEMBLY.

5-34. To initiate the testing procedure the GS-17461 Adapter is inserted into the test set and a GS-15434 Amplifier Subassembly is inserted into the adapter.

a. Energize the test set and advance the "TEST" switch to position 1. The red light should light and the meter pointer position should be controllable by the "ADJUST" control knob.

- b. Set the meter pointer to the red line with the "ADJUST" control knob. This adjusts the output balance.
- c. Advance the "TEST" switch to position 2. The red light should light and the meter pointer position should be controllable by the "ADJUST" knob.
- d. Set the meter pointer to the red line. This adjusts the bias to give an output voltage of -1.0 volt.
- e. Advance the "TEST" switch to position 3. Only the "REPEAT 1 & 2" label should be illuminated and the meter should indicate mid-scale.
- f. Go back and readjust the balance (step 1) and the bias (step 2) as often as may be necessary until each is found to be in satisfactory adjustment without further setting of the "ADJUST" knob.
- g. Advance the "TEST" switch to position 4. The yellow light should come on. This applies +0.5 volt to the input. The meter should now be reading the pin D output of the package with a mid-scale reading of -1.3 volts DC. A 60-scale reading corresponds to -2.1 volts and a 140-scale reading corresponds to -0.5 volt. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 165 + 50 E_D$$

where E_D is the recorded D output in volts for +0.5 input and S is the observed scale reading.

Note

In the text of this section frequent reference is made to the "recorded" input or output voltages. The voltages as described here are values obtained on a particular package on some other test set or on factory test equipment. Since a package with known input or output voltages is rarely available in the field, package input and output voltages may be measured on a package while energized by this test set. To do this, auxiliary meters

may be connected to input and output connection points, and, if care is taken to compensate for loading effects of such meters, correct reference package voltages may be so obtained.

h. Advance the "TEST" switch to position 5. The blue light should come on (+0.5 volt still applied to input). The meter should now be reading the pin E output of the package with a mid-scale reading of -0.7 volts DC. A 60-scale reading corresponds to -1.3 volts and a 140-scale reading corresponds to +0.1 volt. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 135 + 50 E_E$$

where E_E is the recorded E output in volts for +0.5 input and S is the observed scale reading.

1. Advance the "TEST" switch to position 6. The red light should be on and the meter pointer indication should respond to variations of the "ADJUST" knob.

j. Set the meter pointer to the red line (setting E output to mid-scale).

k. Advance the "TEST" switch to position 7. The green light should be on. The meter should now be reading the difference between the pin D output and pin E output with a mid-scale reading of -0.8 volt DC. A 90-scale reading corresponds to -1.0 volt and a 110-scale reading corresponds to -0.6 volt. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 140 + 50 E_{D-E}$$

where E_{D-E} is the recorded difference between the D and E outputs with proper algebraic sign and S is the observed scale reading.

1. Advance the "TEST" switch to position 8. The yellow light should come on. This applies -0.5 volt to the input. The meter should now be reading the pin E output of the package with a mid-scale reading of -1.3 volts DC. A 60-scale reading again corresponds to -2.1 volts and a 140-scale reading corresponds to -0.5 volt. The meter should read with 2 divisions (4 parts on the basis of 100 parts mid-scale)

of the value indicated by the formula

$$S = 165 + 50 E_E$$

where E_E is the recorded E output for -0.5 input and S is the observed scale reading.

m. Advance the "TEST" switch to position 9. The blue light should come on (-0.5 still applied to input). The meter should now be reading the pin D output of the package with a mid-scale reading of -0.7 volt DC. A 60-scale reading corresponds to -0.3 volt and a 140-scale reading corresponds to +0.1 volt. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 138 + 50 E_D$$

where E_D is the recorded output volts for -0.5 input and S is the observed scale reading.

n. Advance the "TEST" switch to position 10. The red light should be on and the meter pointer indication should respond to variations of the "ADJUST" knob.

o. Set the meter pointer to the red line (setting D output to mid-scale).

p. Advance the "TEST" switch to position 11. The green light should be on. The meter should now be reading the difference between the pin E output and pin D output with a mid-scale reading of -0.8 volt. A 90-scale reading corresponds to -1.0 volt and a 110-scale reading corresponds to -0.6 volt. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 140 + 50 E_{E-D}$$

where E_{E-D} is the recorded difference between the E and D outputs with proper algebraic sign and S is the observed scale reading.

q. Advance the "TEST" switch to position 12. The red light should be on and the meter pointer should respond to variations of the adjust knob.

r. Set the meter pointer to the red line (5 volts output at 100-cycle input).

s. Advance the "TEST" switch to position 13. The green light should be on. The meter should now be reading the AC 100-cycle input voltage with a mid-scale reading of 0.65 volts AC. A 90-scale reading corresponds to +.325 volt and a 110-scale reading corresponds to +.975 volt. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 80 + 30.8E_{in}$$

where E_{in} is the 100-cycle AC input in volts and S is the observed scale reading.

t. Advance the "TEST" switch to position 14. The red light should light and the meter pointer should respond to variations of the "ADJUST" knob.

u. Set the meter pointer to the red line (setting the AC 100-cycle input to mid-scale).

v. Advance the "TEST" switch to position 15. The red light should light and the meter pointer should respond to variations of the "ADJUST" knob. It should be possible by variation of the "ADJUST" knob to set the meter pointer to the red line (setting the 35-cycle input to the same value as 100-cycle).

w. Advance the "TEST" switch to position 16. The green light should light. The meter should now be reading the AC output voltage with a mid-scale reading of 3.55 volts. A 90-scale reading corresponds to 3.10 volts and a 110-scale reading corresponds to 4.00 volts. This check for 3 db $\pm$ 10% output drop at 35 cycles is equivalent to the 34 $\pm$ 8 cycle test for 3 db drop of the package test specification. The meter should read with 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the following formula

$$S = 100 + \frac{10}{8} (34 - fr)$$

where fr is the recorder frequency to produce 3 db drop and S is the observed scale reading.

x. Advance the "TEST" switch to position 17. The TEST COMPLETE light should be on, indicating the test with this package is complete.

5-35. TESTING WITH GS-16697 AMPLIFIER SUBASSEMBLY.

5-36. For this series of tests the GS-17462 Adapter is inserted into the GS-17460 Test Set and the GS-16697 Amplifier Subassembly is inserted into the adapter.

a. Advance the "TEST" switch to position 1. The red light should come on and the meter pointer position should be adjustable by means of the "ADJUST" knob.

b. Set the meter pointer position to the red line by means of the "ADJUST" knob. This balances the output.

c. Advance the "TEST" switch to position 2. The red light should come on and the meter pointer position should be adjustable by means of the "ADJUST" knob. It should be possible to set the meter pointer position to the red line by means of the "ADJUST" knob. This adjusts the output to 105 volts.

d. Advance the "TEST" switch to position 3. The "REPEAT 1 & 2" label should be illuminated.

e. Repeat steps 1 and 2, adjusting balance and bias until both are set to the adjust line with no further knob rotation necessary.

f. Advance the "TEST" switch to position 4. The green light should be illuminated. The meter should now be reading the bias input of the package with a mid-scale reading of -100 volts DC. A 90-scale reading corresponds to -125 volts and a 110-scale reading corresponds to -75 volts. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 140 + 0.4 E_K$$

where E_K is the bias voltage on terminal K and S is the observed scale reading.

g. Advance the "TEST" switch to position 5. The blue light should be lit. This unbalances the input by 10 volts. The meter should now be reading the difference between the pin A output and the pin B output with a mid-scale reading of 10 volts. A 60-scale reading corresponds to approximately 0 volts difference and a 140-scale reading corresponds approximately to 20 volts difference. The meter should read within 3 divisions (6 parts on the basis of 100 parts mid-scale) of the

value indicated by the formula

$$S = 60 + 4 E_{A-B}$$

where E_{A-B} is the difference voltage between outputs A and B and S is the observed scale reading.

h. Advance the "TEST" switch to position 6. The green light should be lit. The meter should now be reading the sum of the A and B outputs, with a mid-scale reading of 210 volts. A 90-scale reading corresponds to 195 volts and a 110-scale reading corresponds to 225 volts. The meter should read within 1 division (2 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = -40 + 2/3 E_{A+B}$$

where E_{A+B} is the sum of outputs A and B and S is the observed scale reading.

i. Advance the "TEST" switch to position 7. The blue light should be lit. This unbalances the input by 45 volts. The meter should now be reading the difference between the A and B outputs, with a mid-scale reading of 50 volts. A 60-scale reading corresponds to 40 volts difference and a 140-scale reading corresponds to 60 volts difference. The meter should read within 3 divisions (6 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 100 + 4(E_{A-B} - 50)$$

where E_{A-B} is the difference voltage between outputs A and B and S is the observed scale reading.

j. Advance the "TEST" switch to position 8. The green light should be lit. The meter should now be reading the sum of the A and B outputs, with a mid-scale reading of 210 volts. A 90-scale reading corresponds to 195 volts and a 110-scale reading corresponds to 225 volts. The meter should read within 1 division (2 parts on the basis of 100 parts mid-scale) of the value indicated by the formula of subparagraph h:

$$S = -40 + 2/3 E_{A+B}$$

k. Advance the "TEST" switch to position 9. The red light should be lit and the meter indication should be controllable by means of the "ADJUST" knob. It should be possible to set the meter pointer to the red line by operation of the "ADJUST" knob. (Set the AC output to 10 volts, 200 cycles.)

l. Advance the "TEST" switch to position 10. The green light should be lit. The meter should now be reading the AC input voltage to the package with a mid-scale reading of 0.65 volts. A 90-scale reading corresponds to 0.4 volts and a 110-scale reading corresponds to 0.9 volts. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 74 + 40 E_{in}$$

where E_{in} is the AC input voltage in volts and S is the observed scale reading.

m. Advance the "TEST" switch to position 11. The red light should be lit and the meter indication should be controllable by means of the "ADJUST" knob.

n. Set the meter pointer to the red line by operation of the "ADJUST" knob. (setting buck so AC input of step 1 reads on the red line).

o. Advance the "TEST" switch to position 12. The red light should be lit and the meter indication should be controllable by means of the "ADJUST" knob.

p. Set the meter pointer to the red line by operation of the "ADJUST" knob (setting 50-cycle AC input to the same level as the buck voltage adjustment of step n).

q. Advance the "TEST" switch to position 13. The green light should be lit. The meter should now be reading the AC output voltage of the package with a mid-scale reading of 7.44 volts. A 90-scale reading corresponds to 6.86 volts and a 110-scale reading corresponds to 8.06 volts. This check for 3 db $\pm$ 10% output drop at 50 cycles is equivalent to a 44 $\pm$ 10 cycle test for 3 db drop. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 100 + 2 (44 - fr)$$

where fr is the recorded frequency near 50 cycles for 3 db output drop and S is the observed scale reading.

r. Advance the "TEST" switch to position 14. The red light should be lit and the meter indication should be controllable by means of the "ADJUST" knob.

s. Set the meter pointer to the red line by operation of the "ADJUST" knob (setting 850-cycle AC input to the same level as it was previously set in step n).

t. Advance the "TEST" switch to position 15. The green light should be lit. The meter should now be reading the AC output voltage of the package with a mid-scale reading of 7.10 volts. A 90-scale reading corresponds to 6.55 volts, and a 110-scale reading corresponds to 7.70 volts. This check for 3 db $\pm$ 10% output drop at 850 cycles corresponds to the 850 $\pm$ 100 cycle test for 3 db drop required by the package test specification. The meter should read within 3 divisions (6 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 100 - 0.1 (850 - fr)$$

where fr is the recorded frequency near 850 cycles for 3 db output drop and S is the observed scale reading.

u. Advance the "TEST" switch to position 16. The "REPEAT 1-15" label should come on.

v. Rotate the "TEST" switch in either direction to position 1. The "REPEAT 1-15" label should remain on until position 1 is reached, at which point it should extinguish.

w. Repeat steps a through v, resetting as necessary. This makes identical tests on the other channel of the package amplifier. The "REPEAT 1-15" light should extinguish when the "TEST" switch is set to position 1.

x. Advance the "TEST" switch to position 16. The "TEST COMPLETE" label should come on.

y. Advance the "TEST" switch to position 17. The "TEST COMPLETE" label should remain on, indicating the test with this package is complete.

5-37. TESTING WITH GS-15490 AMPLIFIER SUBASSEMBLY.

5-38. For these tests the GS-17463 Adapter and GS-15490 Amplifier Subassembly are connected to the test set.

a. Advance the "TEST" switch to position 1. The yellow light should be lit. The meter should be reading the noise output with 3 millivolts mid-scale. A 60-scale reading corresponds to 2 millivolts and a 140-scale reading corresponds to 4 millivolts. For noise levels greater than 1 millivolt the meter should read within 3 divisions (6 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = -20 + 40 E_n$$

where E_n is the noise level in millivolts and S is the observed scale reading.

b. Advance the "TEST" switch to position 2. The red light should be lit and the meter indication should be controllable by rotation of the "ADJUST" knob.

c. Set the meter pointer exactly to the red line by rotation of the "ADJUST" knob; this sets the fine input to 5 volts, 400 cycles.

d. Advance the "TEST" switch to position 3. The green light should be lit. The meter should now be reading the AC output voltage with a mid-scale value of 1.1 volts. A 90-scale reading corresponds to 0.9 volts and a 110-scale reading corresponds to 1.3 volts. The meter should read within 3 divisions (6 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 45 + 50E_o$$

where E_o is the AC output voltage and S is the observed scale reading.

e. Advance the "TEST" switch to position 4. The blue light should be lit. The meter should now be reading the AC output voltage with 1.5 volts coarse input voltage. The mid-scale reading should correspond to 2.5 volts. A 60-scale reading corresponds to 0 volts and a 140-scale reading corresponds to 5.0 volts. The meter should read within 4 divisions (8 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 60 + 40/2.5 E_o$$

where E_o is the recorded output for 1.5 coarse input and S is the observed meter reading.

f. Advance the "TEST" switch to position 5. The yellow light should be lit. The meter should now be displaying the AC output with 7.0 millivolts mid-scale

reading. A 60-scale reading corresponds to 2.2 millivolts and a 140-scale reading corresponds to 11.8 millivolts. The meter should read within 4 divisions (8 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 41.7 + 8.33 E_o$$

where E_o is the AC output for 0.7 volts coarse input and S is the observed meter reading.

g. Advance the "TEST" switch to position 6. The red light should be lit and the meter indication should be controllable by the "ADJUST" knob.

h. Set the meter pointer exactly to the red line by rotation of the "ADJUST" knob. This sets the output level to exactly 3.5 volts.

i. Advance the "TEST" switch to position 7. The red light should be lit and the meter indication should be controllable by the "ADJUST" knob.

j. Set the meter pointer exactly to the red line by rotation of the "ADJUST" knob. This sets the bridge reference voltage (R2308, R2309, figure 5-24) to 2.47 volts.

k. Advance the "TEST" switch to position 8. The green light should be lit. The meter is now reading the phase shift of the output with respect to the fine input. A 90-scale reading corresponds to 45 degrees and a 110-scale reading corresponds to 35 and 55 degrees. The phase shift in degrees may be calculated by the formula

$$S = 90 + 2(\overline{P_o - 45^*})$$

where P_o is the phase shift of the output in degrees and S is the observed scale reading.

l. Advance the "TEST" switch to all positions from 9 through 17. The "TEST COMPLETE" light should illuminate for all positions.

* This symbol indicates that only the numerical value of the difference should be doubled and added to 90, i.e., algebraic sign should be ignored. For example, if P is 52 or 38 degrees, the observed scale reading is 104.

5-39. TESTING WITH GS-15418 AMPLIFIER SUBASSEMBLY.

5-40. For these tests the GS-17464 Adapter and the GS-15418 Amplifier Subassembly are connected to the test set.

a. Advance the "TEST" switch to position 1. The yellow light should come on. The meter should be reading the open-loop output of the packaged amplifier with a mid-scale reading of 1.5 volts AC. A 60-scale reading corresponds to 0 volts and a 140-scale reading corresponds to 3 volts. The meter should read within 5 divisions (10 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 60 + 26.6 E_o$$

where E_o is the recorded open-loop output and S is the observed scale reading.

b. Advance the "TEST" switch to position 2. The red light should be lit and the meter indication should be adjustable by rotation of the "ADJUST" knob. It should be possible to set the meter pointer exactly to the red line by rotation of the "ADJUST" knob. This sets the 350-cycle input to 0.016 volts.

c. Advance the "TEST" switch to position 3. The green light should be lit. The meter should now read the AC output voltage with a mid-scale reading of 50 volts. A 90-scale reading corresponds to 30 volts and a 110-scale reading corresponds to 70 volts. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 75 + 0.5 E_o$$

where E_o is the recorded output voltage with 0.016-volt input and S is the observed scale reading.

Note

Both this step (output with .016 input) and the following step (output limiting voltages) are affected by the load impedance into which the GS-15418 package "looks". This load impedance consists of a resolver and associated tuning network which have been located on the oscillator-amplifier panel because of space considerations. Resolvers, however, exhibit minor impedance variations so that completely uniform results from many test

sets can be obtained only by changing the tuning effect of the network to compensate for such resolver variations. Network Z1101, therefore, contains a variable trimer resistor, R1175, figure 5-17. This resistor has been adjusted at the factory to tune the resolver to give output voltages comparable to those obtained with a factory standard resolver. This adjustment should not need to be disturbed unless component changes have been made. If adjustment must be made, R1175 should be set to give, as nearly as possible, the same readings on steps 2 and 3 as were recorded on a package which has been tested on another test set known to be good.

d. Advance the "TEST" switch to position 4. The blue light should be lit. The meter should now read the AC output limiting voltage with a mid-scale reading of 100 volts. A 60-scale reading corresponds to 0 and a 140-scale reading corresponds to 200 volts. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 60 + E_{O1}/2.5$$

where E_{O1} is the open-loop output voltage with 0.1-volt input and S is the observed scale reading.

e. Advance the "TEST" switch to position 5. The yellow light should be lit. The meter should now read the sing output level of the unit with a mid-scale reading of 1.5 millivolts. A 60-scale reading corresponds to .5 MV and a 140-scale reading corresponds to 2.5 MV. For values over 0.75 millivolt, the meter should read within 4 divisions (8 parts on the basis of 100 parts mid-scale) of the value determined by the formula

$$S = 40 + 40 E_s$$

where E_s is the sing voltage output in millivolts and S is the observed meter reading.

Note

For values less than 0.75 MV, the reading should be under 80.

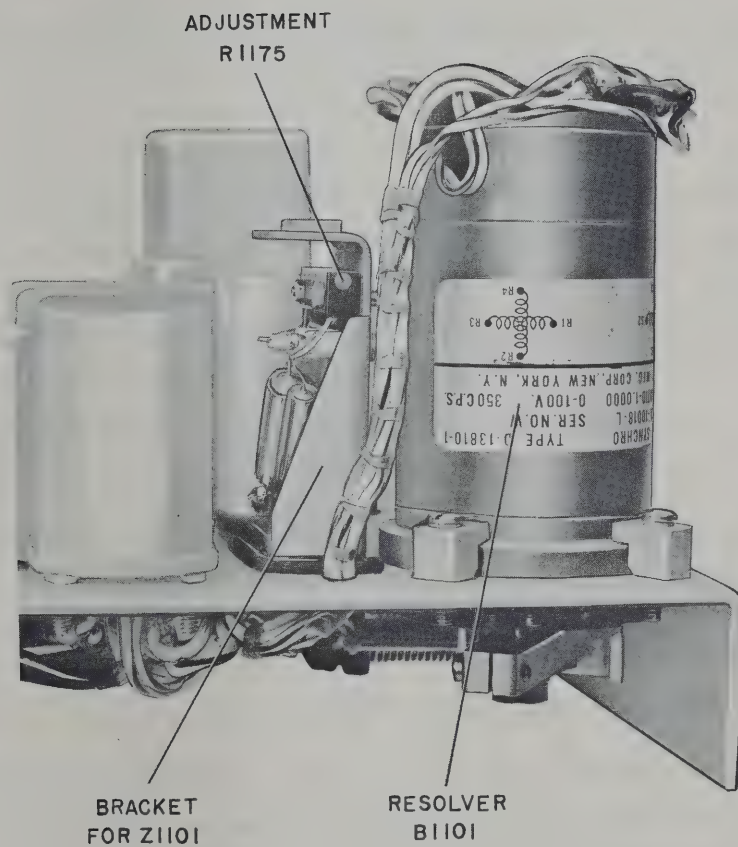


Figure 5-17. Network Z1101, Cover Removed, and Resolver B1101

f. Advance the "TEST" switch to position 6. The yellow light should be lit. The meter should now read the noise output with a mid-scale reading of 1.5 millivolts. The same formula and limits of subparagraph e apply except that the voltage E is the noise voltage in millivolts.

g. Advance the "TEST" switch through all remaining positions from 7 through 17. The "TEST COMPLETE" light should be lit.

5-41. TESTING WITH GS-15416 AMPLIFIER SUBASSEMBLY

5-42. For these tests the GS-17465 Adapter and the GS-15416 Amplifier Subassembly are connected to the test set.

a. Advance the "TEST" switch to position 1. The green light should be lit. The meter should now be reading the pin L output of the packaged amplifier with a mid-scale voltage of 140 volts. A 90-scale reading corresponds to 110 volts and a 110-scale reading corresponds to 170 volts. The meter should read within 1 division (2 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 53.3 + E_L/3$$

where E_L is the maximum L output for 0 volts input and S is the observed scale reading.

b. Advance the "TEST" switch to position 2. The red light should be lit and the meter indication should be adjustable by rotation of the "ADJUST" knob.

c. Set the meter pointer to coincide with the RED line by variation of the "ADJUST" knob. This sets the L output to 150 volts.

d. Advance the "TEST" switch to position 3. The yellow light should be lit. The meter should now be reading the L output voltage shift from 150 volts with three volts of unbalanced signal input. Mid-scale voltage is 115 volts (35-volt change); a 60-scale reading corresponds to 80 volts (70-volt change) and a 140-scale reading corresponds to 150 volts (no change). The meter should read within 4 divisions (8 parts on basis of 100 parts mid-scale) of the value indicated by the formula.

$$S = 140 - 1.14 E_L$$

where E_L is the change in L output for 3V input change and S is the observed scale reading.

e. Advance the "TEST" switch to position 4. The red light should be lit and the meter indication should be adjustable by rotation of the "ADJUST" knob. It should be possible to set the meter pointer to coincide with the red line by variation of the "ADJUST" knob. This sets the AC input to 25 millivolts, 400 cycles.

f. Advance the "TEST" switch to position 5. The yellow light should be lit. The meter should now be reading the DC output voltage on pin L with a mid-scale reading of 130 volts (20-volt change). The meter should read within 3 divisions (6 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 140 - 2 E_L$$

where E_L is now the change in L output for 25 MV AC input and S is the observed scale reading.

g. Advance the "TEST" switch to position 6. This is the same operation as given in subparagraph c above except the pin J output is adjusted to 150. It should be possible to adjust to the red line.

h. Advance the "TEST" switch to position 7. This is the same operation as given in subparagraph f except pin J output is being measured. The yellow light should be lit. The meter should read within 1 division of the value indicated by the formula of subparagraph f

$$S = 150 - 2 E_J$$

where E_J is now the change in J output for a 25 MV, 180° AC phase-shifted input and S is the observed scale reading.

i. Advance the "TEST" switch to position 8. The yellow light should be lit. The meter should now be reading the AC output on terminal P with a mid-scale reading of 25 volts. A 60-scale reading corresponds to 0 volts and a 140-scale reading corresponds to 50 volts. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 60 \pm 1.6 E_P$$

where E_P is the limited P output voltage and S is the observed scale reading.

j. Advance the "TEST" switch to position 9. The yellow light should be lit. The meter should now be reading the L output noise level with a mid-scale reading of 200 millivolts AC. A 60-scale reading is 150 millivolts and a 140-scale reading is 250 millivolts. The meter should read within 5 divisions (10 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = -60 + .8E_n$$

where E_n is the output noise in millivolts with maximum gain and S is the observed scale reading.

k. Advance the "TEST" switch to position 10. The yellow light should be lit. The meter should read the same as in step j except that the value displayed is the noise with minimum gain.

l. Advance the "TEST" switch to position 11. The red light should be lit and the meter indication should be adjustable by rotation of the "ADJUST" knob.

m. Set the meter pointer to coincide with the red line by variation of the "ADJUST" knob. This sets the 35-cycle output to 1 volt AC.

n. Advance the "TEST" switch to position 12. The red light should be lit and the meter indication should be adjustable by rotation of the "ADJUST" knob.

o. Set the meter pointer to the red line by variation of the "ADJUST" knob. This bucks the input to read exactly on the red line.

p. Advance the "TEST" switch to position 13. The red light should be lit and the meter indication should be adjustable by rotation of the "ADJUST" knob.

q. Set the meter pointer to the red line by variation of the "ADJUST" knob. This sets the 100-cycle input to the value mentioned in step o.

r. Advance the "TEST" switch to position 14. The green light should be lit. The meter should now be reading the L output of the packaged amplifier with a mid-scale reading of 0.575 volt. A 90-scale reading corresponds to 0.45 volts and a reading of 110-scale reading corresponds to 0.70 volts. This test is a rearrangement of the 3-db-decrease, 20 cycles to 70 ± 25 cycles test (called for in the

test specification of the package) with the exception that the output level is examined for a fixed frequency shift. The test frequencies are changed from 20 and 70 cycles to 35 and 100 cycles to agree with previously used oscillator frequencies. The meter should read within 3 divisions (6 parts on the basis of 100 parts mid-scale) of the value indicated by the following formula

$$S = 100 + 0.4 (fr-70)$$

where fr is the recorded frequency near 70 cycles for 3 db output drop and S is the observed scale reading.

s. Advance the "TEST" switch to position 15. The "REPEAT 1-15" label should come on.

t. Rotate the "TEST" switch in either direction to position 1. The "REPEAT 1-15" label should remain on until position 1 is reached, at which point it should extinguish.

u. Repeat steps a and b.

v. Advance the "TEST" switch to position 3. The blue light should be lit. The meter is now reading the terminal J output voltage shift from 150 volts with 3 volts input unbalance signal. Mid-scale voltage is 185 volts (35-volt change), a 60-scale reading corresponds to 150 volts (no change), and a 140-scale reading corresponds to 220 volts (70-volt change). The meter should read within 4 divisions (8 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 60 + 1.14 E_J$$

where E_J is the change in terminal J output for 3 volts of input change.

w. Repeat step e.

x. Advance the "TEST" switch to position 5. The blue light should be lit. The meter should now be reading the DC output voltage on terminal J with a mid-scale reading of 170 volts (20-volt change). The meter should read within 3 divisions (6 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 60 + 2 E_J$$

where E_J is the change in terminal J output for 25MV input.

y. Advance the "TEST" switch to position 7. The blue light should be lit. This step is the same as step x above except in this case the terminal L output is read with a .25 MV, AC 180° phase-shifted input.

z. Repeat steps 1, j, k, and r.

aa. Advance the "TEST" switch to position 15. The "TEST COMPLETE" label should come on.

ab. Advance to positions 16 and 17. The "TEST COMPLETE" label should remain on.

5-43. TESTING WITH GS-15420 AMPLIFIER SUBASSEMBLY.

5-44. For these tests the GS-17466 Adapter and the GS-15420 Amplifier Subassembly are connected to the test set.

a. Advance the "TEST" switch to position 1. The red light should be lit and the meter indication should be controllable by the "ADJUST" knob.

b. Set the meter pointer to the red line. This adjusts the sum input to 17.5 volts and the terminal P input to 0.5 volt.

c. Advance the "TEST" switch to position 2. The green light should be lit. The meter should now be reading the terminal R output of the packaged amplifier with a mid-scale reading of 0.24 volts AC. A 90-scale reading corresponds to 0.16 volt, and a 110-scale reading corresponds to 0.32 volt. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 70 + 12.5 E_R$$

where E_R is the R output for 17.5 input and S is the observed scale reading.

d. Advance the "TEST" switch to position 3. The red light should be lit and the meter indication should be controllable by the "ADJUST" knob.

e. Set the meter pointer to the red line. This adjusts the output to 0.24 volts.

f. Advance the "TEST" switch to position 4. The green light should be lit. The meter should now be reading the R output voltage for 0 sum voltage with a mid-scale reading of 0.928 volt. A 90-scale reading corresponds to 0.529 volt and a 110-scale reading corresponds to 1.33 volts ($\pm 43\%$). The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 77 + 5.9 G_0$$

where G_0 is the gain ratio for 0 sum voltage and S is the observed scale reading.

Note

Amplifier data recorded in db must be converted to ratio before inserting in formula.

g. Advance the "TEST" switch to position 5. The green light should be lit. The meter should now be reading the terminal R output voltage for a 3.0-volt sum input with a mid-scale reading of 0.928 volt. A 90-scale reading corresponds to 0.668 volt and a 110-scale reading corresponds to 1.19 volts ($\pm 28\%$). The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 64 + 9.15 G_{2.48}$$

where $G_{2.48}$ is the gain ratio for 3.0 sum voltage and S is the observed scale reading.

h. Advance the "TEST" switch to position 6. The green light should be lit. The meter should now be reading the terminal R output voltage for 8.4-volts sum input, with a mid-scale reading of 0.486 volt. A 90-scale reading corresponds to 0.374 volt and a 110-scale reading corresponds to 0.598 volt ($\pm 23\%$). The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 56.5 + 21.2 G_{8.4}$$

where $G_{8.4}$ is the gain ratio for 8.4 sum voltage and S is the observed scale reading.

i. Advance the "TEST" switch to position 7. The green light should be lit. The meter should now be reading the terminal R output voltage for 53-volt sum input with a mid-scale reading of 0.069 volt. A 90-scale reading corresponds to .053

volt and a 110-scale reading corresponds to 0.084 volt ($\pm 23\%$). The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 56.5 + 149 G_{53}$$

where G_{53} is the gain ratio for 53-volt sum input and S is the observed scale reading.

j. Advance the "TEST" switch to position 8. The green light should be lit. The meter should now be reading the R output voltage for 132-volt sum input with a mid-scale reading of 0.027 volt. A 90-scale reading corresponds to 0.021 volt and a 110-scale reading corresponds to 0.036 volt ($\pm 33\%$). The meter should read within 3 divisions (6 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 70 \pm 339 G_{132}$$

where G_{132} is the gain ratio for 132 sum voltage and S is the observed scale reading.

k. Advance the "TEST" switch to position 9. The yellow light should be lit. The meter should now be reading the R output with 150-volt sum input and zero P input. Mid-scale reading is 2.0 MV; 60-scale reading corresponds to 1.0 millivolts, and 140-scale reading corresponds to 3.0 MV. For noise outputs greater than 1.5 millivolts, the meter should read within 3 divisions (6 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 20 \pm 40 E_n$$

where E_n is the noise output in millivolts with a sum input of +150V and S is the observed scale reading.

l. Advance the "TEST" switch to position 10. The yellow light should be lit. The meter should read the output noise as in step k except that the sum input is 0. For this condition E_n in the formula is the noise output in millivolts.

m. Advance the "TEST" switch to all positions from 11 through 17. The "TEST COMPLETE" light should be lit.

5-45. TESTING WITH GS-15433 AMPLIFIER SUBASSEMBLY.

5-46. For these tests the GS-17467 Adapter and the GS-15433 Amplifier Subassembly are connected to the test set.

a. Advance the "TEST" switch to position 1. The green light should be lit. The meter should now be reading the DC output voltage with a mid-scale reading of 0 volts. A 90-scale reading corresponds to -3 volts and a 110-scale reading corresponds to +3 volts. The meter should read within 1 division (2 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 100 + E_o/0.3$$

where E_o is the output voltage with input grounded and S is the observed scale reading.

b. Advance the "TEST" switch to position 2. The red light should be lit and the meter indication should respond to rotation of the "ADJUST" knob.

c. Set the meter pointer to the red line by variation of the "ADJUST" knob. This balances the two package outputs.

d. Advance the "TEST" switch to position 3. The green light should be lit. The meter should now be reading the output voltage for a +0.5-volt input with a mid-scale reading of -7.5 volts. A 90-scale reading corresponds to -9.5 volts and 110-scale reading corresponds to -5.5 volts. The meter should read within 1 division (2 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 137.5 + 5 E_o$$

where E_o is the output voltage in volts and S is the observed scale reading.

e. Advance the "TEST" switch to position 4. The green light should be lit. The meter should now be reading the output voltage for -0.5 volts input with a mid-scale reading of +7.5. A 90-scale reading corresponds to +5.5 volts and a 110-scale reading corresponds to +9.5 volts. The limits given in step d apply; the formula is

$$S = 62.5 + 5 E_o$$

f. Advance the "TEST" switch to position 5. The yellow light should be lit. The meter should now be reading the AC output with 0.5 volt AC input. Mid-scale reading is 3.5 volts; a 60-scale reading corresponds to 0 volts and 140-scale reading corresponds to 7.0 volts. The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 60 + 40/3.5 E_o$$

where E_o is the AC output voltage and S is the observed scale reading.

g. Advance the "TEST" switch to all positions from 6 through 17. The "TEST COMPLETE" lamp should be lit for all positions.

5-47. TESTING WITH GS-16451 SIGNAL COMPARATOR.

5-48. For these tests the GS-17468 Adapter and the GS-16451 Signal Comparator are connected to the test set.

a. Advance the "TEST" switch to position 1. The red light should be lit and the meter indication should respond to rotation of the "ADJUST" knob.

b. Set the meter pointer to coincide with the red line by rotation of the "ADJUST" knob. This balances the output of the package for 0.0686 X 300 volts applied to the A, X, and Y inputs.

c. Advance the "TEST" switch to position 2. The red light should be lit and the meter indication should respond to rotation of the "ADJUST" knob.

d. Set the meter pointer to coincide with the red line by rotation of the "ADJUST" knob. This sets the 350-cycle voltage to the level required by the package.

e. Advance the "TEST" switch to position 3. The red light should be lit and the meter indication should respond to rotation of the "ADJUST" knob.

f. Set the meter pointer to coincide with the red line by rotation of the "ADJUST" knob. This sets the buck circuit to balance exactly the terminal R output.

g. Advance the "TEST" switch to position 4. The red light should be lit and the meter indication should respond to rotation of the "ADJUST" knob.

h. Set the meter pointer to coincide with the red line by rotation of the "ADJUST" knob. This changes the R output by 0.125 V by adjusting the DC voltage at terminal A. The sum of +1.37 V DC and .0992/.2449 of 350-cycle AC voltage is applied to terminals X and Y.

i. Advance the "TEST" switch to position 5. The green light should be lit. The meter should now be reading the DC voltage on terminal A with a mid-scale reading of 9.33 volts. A 90-scale reading corresponds to 8.75 volts and a 110-scale reading corresponds to 9.91 volts ($\pm 6.25\%$). The meter should read within 2 divisions (4 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = -59.5 + 17.2E_A$$

where E_A is the voltage on terminal A in volts and S is the observed scale reading.

j. Advance the "TEST" switch to position 6. The red light should be lit and the meter indication should respond to rotation of the "ADJUST" knob.

k. Set the meter to coincide with the red line by rotation of the "ADJUST" knob. This sets the terminal W output to -0.250 volts by adjusting the DC voltage on terminal A.

l. Advance the "TEST" switch to position 7. The green light should be lit. The meter should now be reading the DC voltage on pin A with a mid-scale reading of 1.35 volts (0.0045×300). A 90-scale reading corresponds to 0.61V and a 110-scale reading corresponds to 2.09V. The meter should read within 1 division (2 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 82 \pm E_A/.074$$

where E_A is the voltage on A for 0.25 volts on W, and S is the observed scale reading.

m. Advance the "TEST" switch to position 7. The red light should be lit and the meter indication should respond to rotation of the "ADJUST" knob.

n. Set the meter pointer to coincide with the red line by rotation of the "ADJUST" knob. This sets the DC output on pin V to -0.250V.

o. Advance the "TEST" switch to position 9. The green light should be lit. The meter should now be reading the DC voltage on pin A with a mid-scale reading of 11.85 volts ($0.0395 \times 300V$). A 90-scale reading corresponds to 11 volts and a 110-scale corresponds to 12.7 volts ($\pm 7\%$). The meter should read within 1 division (2 parts on the basis of 100 parts mid-scale) of the value indicated by the formula

$$S = 140 + E_A / 0.085$$

where E_A is the voltage on A with -0.250V on terminal V.

p. Advance the "TEST" switch through all remaining positions from 10 through 17. The "TEST COMPLETE" light should be lit for all positions.

5-49. INVESTIGATING PACKAGE MALFUNCTIONS.

5-50. The three "PACKAGE CURRENTS" jacks (figure 2-1) on the test set front panel are provided so that package currents may be measured for record or investigative purposes. To identify them with the associated power supply, the jacks are designated "+300", "+150", and "-150". In order to measure package current consumption, proceed as follows:

- a. Insert the package and complete the preheat cycle as usual.
 - b. Perform balancing and biasing operations (steps 1 and 2) where called for in testing the GS-15434 and GS-16697 packages.
 - c. Advance the "TEST" switch to the position called for in table 5-3 (position 17 except for the GS-15418 and GS-16697 packages).
 - d. Connect a milliammeter to the G-235411 cable with the red tip jack to the + meter terminal.
 - e. Set the milliammeter switch to the high current range.
 - f. Insert the plug of the milliammeter lead into the +300 jack.
 - g. Rotate the meter scale switch until the reading is displayed on the appropriate scale and record the value. Return the meter scale switch to the high-current range position.
-

h. Repeat steps f and g for the "+150" and "-150" jacks. It is not necessary to change meter connections for the -150 measurements. Current readings obtained should be in accordance with table 5-3.

NOTE

The nominal currents and tolerances as shown in table 5-3 are based on the original current requirements on the packages at the time of manufacture. Field use of these packages does not require that the package continue to draw currents within the original factory current limits; i.e., a package is deemed satisfactory if it meets its electrical test requirements. Field current measurements may be used, however, to detect possible impending failure or changes in tube operating characteristics which may foreshadow eventual inability to meet other test requirements. For critical application, therefore, packages having currents within or very close to the limits given in table 5-3 are to be preferred in cases where a choice of packages is available.

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

TABLE 5-3

ADAPTER AND PACKAGE CURRENTS

ADAPTERS		ADAPTER CURRENT	TOTAL CURRENT in ma	REMARKS
GS-17461 (15434 Pkg)	+300	0	6 ± .6	"TEST" position 17 or any other "TEST COMPLETE" step. See footnote 1.
	+150	No Current Req'd.		
	-150	4	10 ± .6	"TEST" position 17 or any other "TEST COMPLETE" step. See footnote 1.
GS-17462 (16697 Pkg)	+300	No Current Req'd.		
	+150	1.05	13.05 ± 1	"TEST" position 16 only.
	-150	.09		Package current not measured. See footnote 2.
GS-17463 (15490 Pkg)	+300	0	1.3 ± .13	"TEST" position 17 or any other "TEST COMPLETE" step.
	+150	3.4	4.7 ± .13	"TEST" position 17 or any other "TEST COMPLETE" step.
	-150	3.1	4.7 ± .16	"TEST" position 17 or any other "TEST COMPLETE" step.
GS-17464 (15418 Pkg)	+300	0	14 ± 1.7	"TEST" position 16 only. See footnote 3.
	+150	0	0.8 ± .25	
	-150	No Current Req'd.		
GS-17465 (15416 Pkg)	+300	0	5 ± 1	"TEST" position 17 or any other "TEST COMPLETE" step.
	+150	.2	1.2 ± .25	"TEST" position 17 or any other "TEST COMPLETE" step.
	-150	2.2	3.67 ± .2	"TEST" position 17 or any other "TEST COMPLETE" step.
GS-17466 (15420 Pkg)	+300	0	.4 ± .05	"TEST" position 17 or any other "TEST COMPLETE" step.
	+150	2.8	10.5 ± .8	"TEST" position 17 or any other "TEST COMPLETE" step.
	-150	2.9	11.4 ± .9	"TEST" position 17 or any other "TEST COMPLETE" step.

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

TABLE 5-3 (CONTD)

ADAPTERS	ADAPTER CURRENT	TOTAL CURRENT in ma	REMARKS
GS-17467 (15433 Pkg)	+300	0	"TEST" position 17 or any other "TEST COMPLETE" step.
	+150	.05	"TEST" position 17 or any other "TEST COMPLETE" step.
	-150	No Current Req'd.	
GS-17468 (16451 Pkg)	+300	No Current Req'd.	
	+150	No Current Req'd.	
	-150	No Current Req'd.	

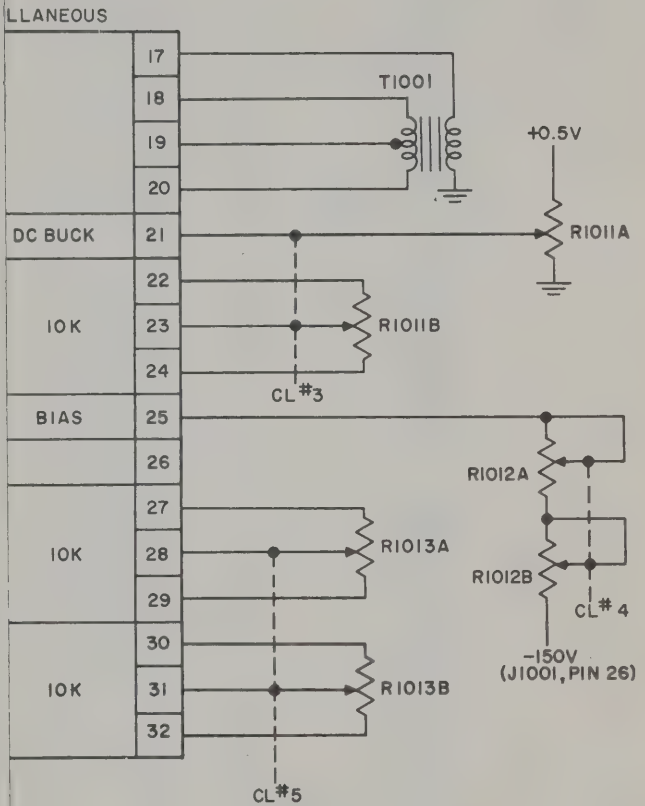
- The total current readings from the "+300" and "-150" jacks should be within $4 \pm .2$ ma of each other.
- True package current cannot be read at test jack. The .09 ma reading indicates adapter current only when package is in or out. This is due to the way the test set is wired.
- The GS-15418 factory specification specifies that the +300 current should be $1.0 \pm .3$ with inputs grounded. Therefore, current for this test is read at position 16 since inputs are not grounded on position 17. The factory specification also stipulates that the currents at both pins J and K should fall between 4.8 ma and 8.2 ma. Since these pins are fed by +300 volts through a center-tapped transformer, they are part of the +300 load. Therefore, the total +300V load is:

Input	$1 \pm .3$ ma
Pin J	6.5 ± 1.7 ma
Pin K	6.5 ± 1.7 ma
Total	14 ± 2.0 ma

NOTE

If a large number of packages are found to produce abnormal current readings, the adapter current only can be checked by removing the package and manually depressing the switch at the bottom of the adapter well. The adapter currents should be, in general, within a few per cent of the value in table 5-3. If the adapter is suspected to be faulty for any reason it should be checked further in accordance with paragraph 5-28.

J1001 POWER			
1	K1101	OSCILLATOR OUTPUT	17
2	K1102		18
3	K1103		(CENTER TAP) 19
4	CLUTCH #1	NETWORK Z1003	20
5	GND		
6		RESOLVER B1101	22
7	R1030	+28V	23
8	+300V	+150V	24
9		+0.5V	25
10	FIL X	-150V	26
11		CENTER TAP	27
12	150V AC		28
13	0 TO 7V, 400~ T1004		29
	CENTER TAP		30
14	FIL	AC VTVM OUTPUT LO	31
15	(CENTER TAP)		
16	Y	AC VTVM OUTPUT HI	32



reconnecting Simplified Schematic



OVER-ALL SCHEMATIC													
APPARATUS LIST													
REF DESIG	VALUE	TOL ± %	MFR'S RATING		TYPE, PART OR DRAWING NO.	REMARKS	REF DESIG	VALUE	TOL ± %	MFR'S RATING		TYPE, PART OR DRAWING NO.	REMARKS
			WATTS	VOLTS						WATTS	VOLTS		
B1001					G-234084		R1019	10,000	10	0.1	10	BA-99069	
C1001	6 μF	20		50	GA-52979	(GE-29 F 571)	R1020	10,000	10	0.1	10	BA-99069	
C1002	6 μF	20		50	GA-52979	(GE-29 F 571)	R1021	35,000	10	*	10		
F1001	4.0 AMPS				BA-10082-155		R1022	35,000	10	*	10	BA-99307	
F1002	4.0 AMPS				BA-10082-155		R1023	3.00 MEG	.01	*	150	RB19E3003B	
I1001					BA-10142-15		R1024	1750 OHMS	.25	*	1	D-178618B	
I1002					BA-10142-15		R1025	5.11 MEG	1.0	*	10	GA-50085A5114	
I1003					BA-10142-15		R1026	.1 MEG	1.0	*	.2	GA-50508A1003	
I1004					BA-10142-15		R1027	5.11 MEG	1.0	*	10	GA-50085A5114	
I1005					BA-10142-15		R1028	.1 MEG	1.0	*	.2	GA-50508A1003	
I1006					BA-10142-15		R1030	10.0	10	8	6.3	G-245673	MIL-R-26B (NON INDUCTIVE) SPRAGUE TYPE 25 NIT
I1007					BA-10142-15								
I1008					BA-10142-15		S1001					ST22K	
I1009					BA-10142-15		S1002					G-227121	
I1010					BA-10142-15		S1003					G-231290	
I1011					BA-10142-15		S1004					G-231290	
I1012					BA-10142-15		S1005					G-231290	
I1013					BA-10142-15		S1006					G-231290	
I1014	RED				BA-10142-19		S1007					G-231215	
I1015	GREEN				BA-10142-20								
I1016	YELLOW				BA-10142-18		T1001					GA-51156	
I1017	BLUE				BA-10142-21		T1002					GA-52535	
J1001					BA-98455		T1003					GA-52535	
J1002					BA-98455		T1004					KS-9929	
J1003					BA-98455		T1005					KS-9862	
J1004					BA-98455		T1006					GA-52566L01	
J1005					BA-98455								
J1006					BA-98455		TE1001					G-233992	
J1007					BA-98455								
J1008					G-205529		XF1001					G-220901-1	
J1009					JAN-J-641		XF1002					G-220901-2	
J1010					(TYPE JAN-JJ-083)								
J1011					JAN-J-641		Z1001					GA-50548	
					(TYPE JAN-JJ-083)		Z1002					GA-50548	
					JAN-J-641		Z1003					GA-52007	
					(TYPE JAN-JJ-083)								
K1001					G-211906								
K1002					BA-98034								
K1003					BA-98034								
K1004					BA-98034								
K1005					BA-98034								
K1006					BA-98034								
K1007					BA-98034								
L1001					G-234239-2								
L1002					G-234239-1								
L1003					G-234239-1								
L1004					G-234239-1								
L1005					G-234239-1								
M1001					G-227149								
P1001					G-210819								
P1002					G-210821								
P1003					G-210821								
R1001	75,000 OHMS	.25	.3	150	D-178618B								
R1002	1,130 OHMS	.25	*	.5	D-178618B								
R1004	750 OHMS	.25	*	.38	D-178618B								
R1005	249 OHMS	.25	*	.13	D-178618B								
R1006	1260 OHMS	.25	*	3.2	D-178618B								
R1007	10.1 OHMS	.25	*	.03	D-178618B								
R1009	20,500	5.0	.45	100	GA-50084A-2052								
R1010	A 2,000	5.0	.12	12	G-227204-4								
	B 100,000	5.0	*	10									
R1011	A 10,000	1.0	*	5	G-227204-1								
	B 10,000	1.0	.04	20									
R1012	A 100,000	5.0	.03	50	G-227204-2								
	B 100,000	5.0	.03	50									
R1013	A 10,000	1.0	.04	20	G-227204-1								
	B 10,000	1.0	.04	20									
R1014	220	10	4.65	32	RW55J221								
R1015	220	10	4.65	32	RW55J221								
R1016	220	10	4.65	32	RW55J221								
R1017	220	10	4.65	32	RW55J221								
R1018	220	10	4.65	32	RW55J221								

Figure 5-19. Apparatus List for Over-all Schematic (G-234188)

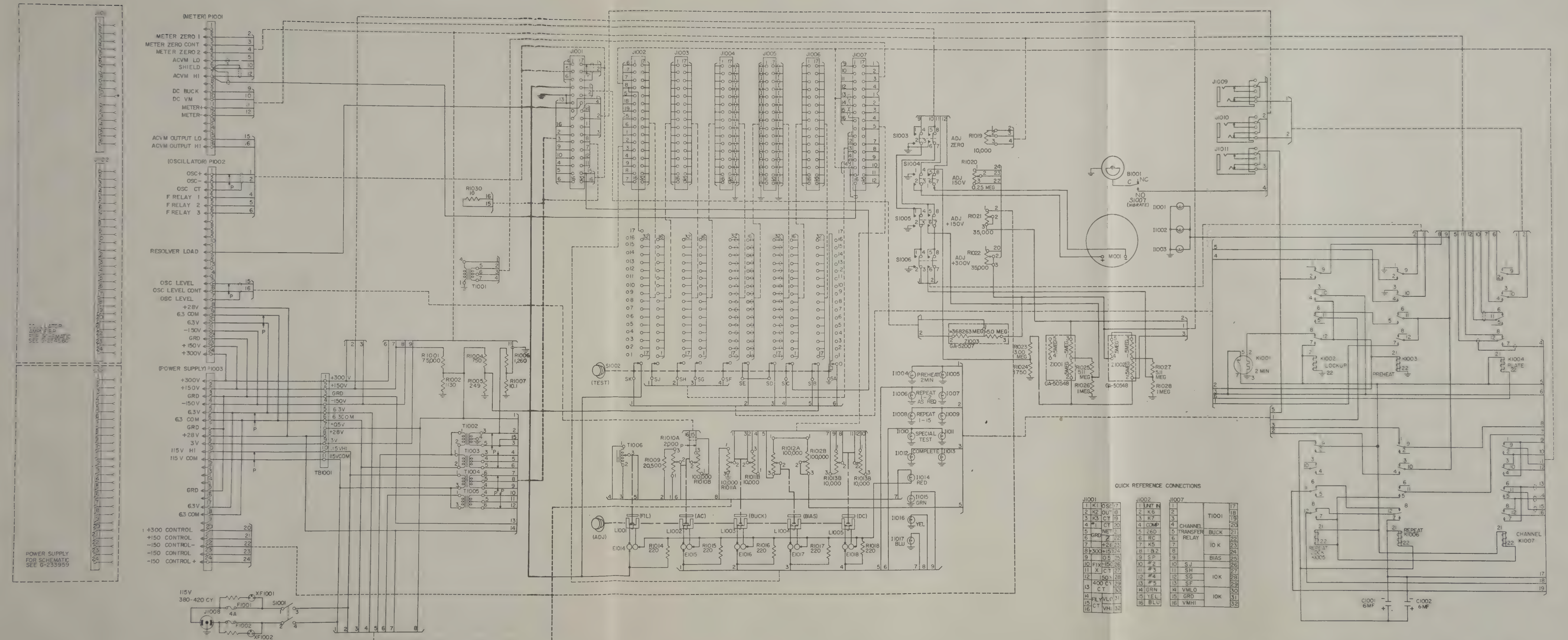


Figure 5-19. Over-all Schematic of Test Set (G-234188, Rev. P)

NOTES:

1. ALL VALUES EXPRESSED IN OHMS AND MICROMICROFARADS UNLESS OTHERWISE INDICATED.

Figure 5-20. Oscillator Amplifier Apparatus List (G-234561)

NOTES.

1. ALL VALUES ARE EXPRESSED IN OHMS AND MICROFARADS UNLESS OTHERWISE INDICATED.
2. TERMINAL NUMBERING FOR VARIABLE RESISTORS R1111, R1126, R1129, R1136 AND R1153 ARE FOR REFERENCE ONLY. RELATIVE LOCATION OF TERMINALS IS SHOWN BELOW.

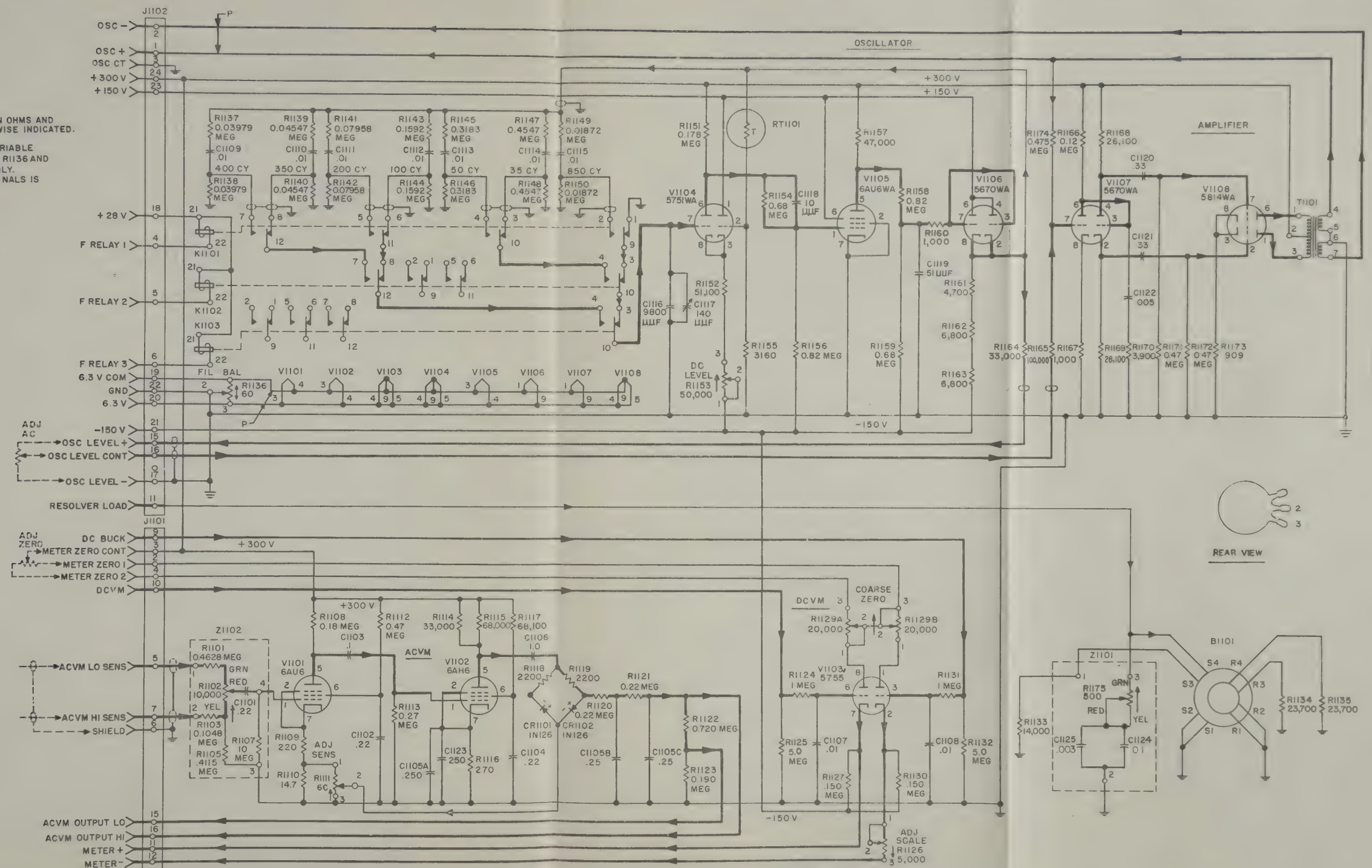


Figure 5-20. Oscillator Amplifier Schematic (G-234560, Rev. J)

POWER SUPPLY													
APPARATUS LIST							APPARATUS LIST						
REF DESIG	VALUE	TOL ± %	MAX OPER		TYPE, PART OR DRAWING NO.	REMARKS	REF DESIG	VALUE	TOL ± %	MAX OPER		TYPE, PART OR DRAWING NO.	REMARKS
			WATTS	VOLTS						WATTS	VOLTS		
B1201					KS-15101L03		V1201					JAN()5R4WGY	MIL-E-1B
C1201	2μF	10		7	CP70E1EH205K	MIL-C-25	V1202					JAN()5852	↕
C1202	2μF	10		3	CP70E1EG205K	MIL-C-25	V1203				*	*J()5670WA	↕
C1203	1.0μF	10		18	CP65B1EF105K	MIL-C-25	V1204					J()5654	MIL-E-1B
C1204	.0033μF	10		300	CM30B332J	MIL-C-5A	V1205					JAN()6AS7G	WE427A
C1205	.002μF	10		400	CM30B202J	MIL-C-5A	V1206				*	J()6141	MIL-E-1B
C1206	1.0μF	10		15	CP65B1EF105K	MIL-C-25	V1207				*	*J()5751WA	↕
C1207	.002μF	10		11	CM35C103J	MIL-C-5A	V1208				*	*J()5686	↕
C1208	.0033μF	10		22	CM30B332J	MIL-C-5A	V1209				*	J()5670WA	MIL-E-1B
C1209	.002μF	10		70	CM35B103J	MIL-C-5A	V1210					*J()5654/6AK5W/60 96	↕
C1210	.002μF	10		15	CM30B202J	MIL-C-5A	V1211					J()5686	MIL-E-1B
C1211	1.0μF	10		30	CP65B1EF105K	MIL-C-25							
C1212	0.5μF	20		120	CP54B1EG504K	MIL-C-25							
C1213	6 MF	20		50	GA-52979								
C1214	7500μF				CM35D752G	MIL-C-5/5B	Z1201					D-171507	
C1215	5 MF	20		50	GA-52979		Z1202					D-171506	
C1216	330μF				CM30B332K	MIL-C-5/4A	Z1203					D-171505	
C1217	330μF				CM20C331K	MIL-C-5/2A							
C1218	6 MF	20		20	GA-52979	(GE-29F571)							
C1219	6 MF	20		3	GA-52979	(GE-29F571)							
C1220	2.0μF				CP53B1EF205V	MIL-C-25/4A							
C1221	0.22 μF				GA-51143-L6								
CR1201					GA-51383L01								
J1201					G-210804-1								
L1201	1H				GA-52341								
L1202	2.2H				GA-50004								
													* Indicates negligible watts or volts, < .01.
R1201	.249 MEG	5	.09	150	GA50083A2493								
R1202	0.1 MEG	5	.23	150	GA50084A1003								
R1203	10,000	5	*	*	GA50508A1002								
R1204	0.221 MEG	5	.41	300	GA50085A2213								
R1205	56,200	5	.20	100	GA50083A5622								
R1206	33,200	5	.06	50	GA50508A3322								
R1207	10,000	20	*	*	GA50508C1002								
R1208	26.1	20	.34	3	GA-50085C26R1								
R1209	26.1	20	.34	3	GA-50085C26R1								
R1210	10,000	20	*	*	GA50508C1002								
R1211	0.1 MEG	20	.305	175	RC42GF104K	MIL-R-11							
R1212	56,000	20	.607	185	RC42GF563J	MIL-R-11							
R1213	56,000	20	.607	185	RC42GF563J	MIL-R-11							
R1214	0.750 MEG	1	*	0.34	D176176A	WECO							
R1215	1500	10	*	127	D176176A	WECO							
R1216	1.0 MEG	1	*	0.74	GA50083C1501								
R1217	3830	10	*	96	GA50083C3831								
R1218	0.15 MEG	10	.061	200	GA50083B1503								
R1219	0.511 MEG	5	.0783	80	GA50083A5113								
R1220	10.0	10	*	0.38	GA50083A10R0								
R1221	0.1 MEG	5	.06	150	GA50508A1003								
R1222	.511 MEG	5	.05	80	GA50508A5113								
R1223	10,000	5	*	*	GA50508A1002								
R1224	0.221 MEG	5	.10	150	GA50508A2213								
R1225	56,200	5	.20	100	GA50083A5622								
R1226	33,200	5	.06	50	GA50508A3322								
R1227	10,000	20	*	*	RC20GF103K	MIL-R-11							
R1228	0.33 MEG	5	.0558	136	GA50083A3303								
R1229	0.301	10	.0804	156	GA50083A3013								
R1230	0.511	5	.0366	137	GA50083A5113								
R1231	0.511	5	.0366	137	GA50083A5113								
R1232	10,000	5	*	*	GA-50508A1002								
R1233	56,000	20	.607	185	RC42GF563J	MIL-R-11							
R1234	4700	20	*	*	RC20GF472K	MIL-R-11							
T1201					GA-50599								
T1202					GA-52588								
T1203					GA-50600								

Figure 5-21. Power Supply Apparatus List (G-234047)

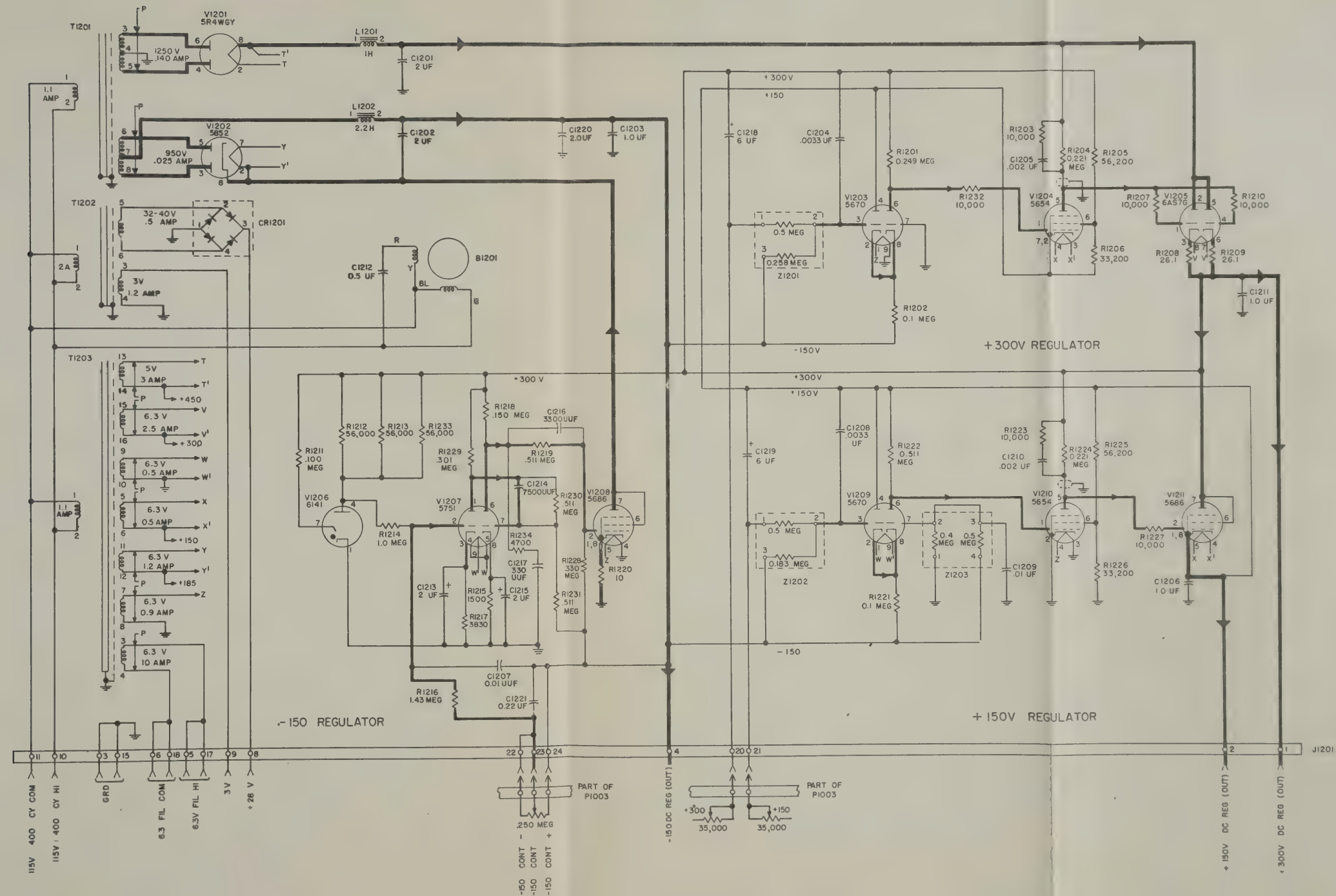


Figure 5-21. Power Supply Schematic (G-233959, Rev. E)

GS-17461 ADAPTER, TEST					
APPARATUS LIST					
REF DESIG	VALUE	TOL ± %	MAX OPER		TYPE, PART OR DRAWING NO.
			WATTS	VOLTS	
J2101					BL-722564
P2101					BA-98466-1
P2102					BA-98456
P2103					↑
P2104					BA-98456
P2105					BA-98466-1
P2106					
P2107					
R2101	5110	2.0	.02	10	GA-50508A5111
R2102	75,000	.25	.30	150	D-178619B
R2103	252	.25	.01	2.5	D-178618B
R2104	4020	5.0	*	2	GA-50508A4071
R2105	953	.25	*	2	D-178618B
R2106	18.7	.25	*	.05	D-178618B
R2107	.100 MEG	1.0	*	10	D-176176A
R2108	417	1.0	*	.04	↑
R2109	1010	1.0	*	.1	
R2110	0.100 MEG	1.0	*	10	↓
R2111	4.99 MEG	1.0	*	10	
R2112	1.13 MEG	1.0	*	1.3	
R2114	4.99 MEG	1.0	*	10	
R2115	1.13 MEG	1.0	*	1.3	D-176176A
R2117	62.5	.25	*	.06	D-178618B
R2118	137	.25	*	.19	D-178618B
R2119	249	.25	*	.25	D-178618B
R2120	549	.25	*	.01	D-176176A
R2121	76.3	.25	*	.02	↑
R2122	153	.25	*	.03	
R2123	234	.25	*	.04	↓
R2124	0.75 MEG	.25	.3	150	D-176176A
R2128	597	20	*	2	D-176176A
R2129	68,000	2	0.31	145	RC42GF683J
R2130	5600	2	*	5	RC20GF562J
R2131	5600	2	*	5	RC20GF562J
R2132	68,000	2	0.31	145	RC42GF683J
S2101					G-231285

- NOTES:
1. ALL VALUES ARE EXPRESSED IN OHMS UNLESS OTHERWISE SPECIFIED.

2. * NEGLIGIBLE WATTS OR VOLTS, (LESS THAN 0.01 WATTS OR VOLTS).

Figure 5-22. GS-17461 Test Adapter Apparatus List (G-234624)

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

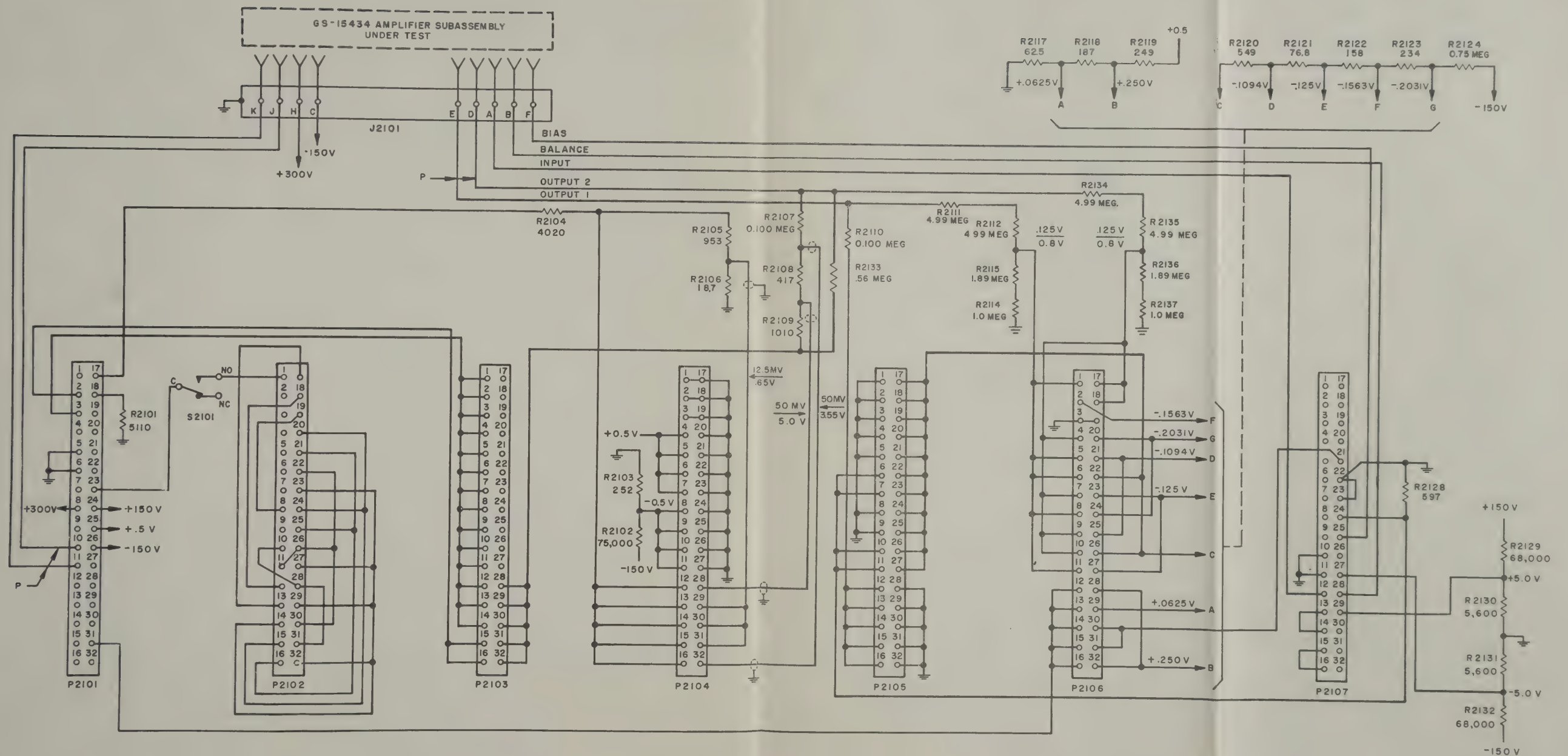


Figure 5-22. GS-17461 Test Adapter Schematic (G-234623, Rev. G)

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

GS-17462 ADAPTER, TEST						
APPARATUS LIST						
REF DESIG	VALUE	TOL ± %	MFR'S RATING		TYPE, PART OR DRAWING NO.	REMARKS
			WATTS	VOLTS		
C2201	2 μF	20		100	GA-51901	
C2202	2 μF	20		100	↑	
C2203	2 μF	20		100	↓	
C2204	2 μF	20		100	GA-51901	
J2201					BL-722566	
P2201					BA-98466-1	] MODIFY PER G-235994
P2202					BA-98456	
P2203					↑	
P2204					↓	
P2205					BA-98456	
P2206					BA-98466-1	
P2207						
R2201	4640	5.0	*	.9	GA-50508A4641	
R2202	4640	5.0	*	.9	GA-50508A4641	
R2203	10,000	2.0	1.82	135	GA-50086A1002	
R2204	10,000	2.0	1.82	135	GA-50086A1002	
R2205	2,710	1.0	*	10	D176176A	
R2206	1,130	1.0	*	4	↑	
R2207	.200 MEG	1.0	.05	100		
R2208	.301 MEG	1.0	.07	150		
R2209	1930	1.0	*	.02		
R2210	374	1.0	*	.01		
R2211	.706 MEG	1.0	*	75		
R2212	.715 MEG	1.0	*	75		
R2213	10,400	1.0	*	0.5		
R2214	4.99 MEG	1.0	*	102		
R2215	4.99 MEG	1.0	*	102		
R2216	1.21 MEG	1.0	*	40		
R2217	.246 MEG	1.0	*	15		
R2218	2.49 MEG	1.0	*	45		
R2219	2.49 MEG	1.0	*	45		
R2220	2.49 MEG	1.0	*	45		
R2221	2.49 MEG	1.0	*	45		
R2222	.536 MEG	1.0	*	45		
R2223	.499 MEG	1.0	*	30		
R2224	49,900	1.0	*	0.6		
R2225	.499 MEG	1.0	*	30		
R2226	49,900	1.0	*	0.6	D176176A	
R2227	777	.25	*	.38	D-178618B	
R2228	234	.25	*	.12	↑	
R2229	126	.25	*	.06	↓	
R2230	715	.25	*	.36		
R2231	156	.25	*	.08	D-178618B	
R2232	10,600	1.0	.68	85	D-176176A	
R2233	10,600	1.0	.68	85	D-176176A	
R2234	11,300	.25	.18	45	D-178620B	
R2235	2490	.25	.04	10	D-178618B	
R2236	8,760	.25	.14	35	D-178620B	
R2237	8760	.25	.14	35	D-178620B	
R2238	2490	.25	.04	10	D-178618B	
R2239	11,300	.25	.18	45	D-178620B	
R2240	258	1.0	*	.13	D-176176A	
R2241	5620	1.0	*	.08	D-176176A	
R2242	43,700	1.0	.74	190	D-176176A	
R2243	511	5.0	.02	9	GA-50508A5110	
R2244	511	5.0	.02	9	GA-50508A5110	
S2201					G-231285	
S2202					G-231285	

- NOTES:
1. ALL VALUES ARE EXPRESSED IN OHMS AND MICROFARADS UNLESS OTHERWISE INDICATED.
 2. *NEGLIGIBLE, LESS THAN 0.01 WATTS OR VOLTS.

Figure 5-23. GS-17462 Test Adapter Apparatus List (G-234626)

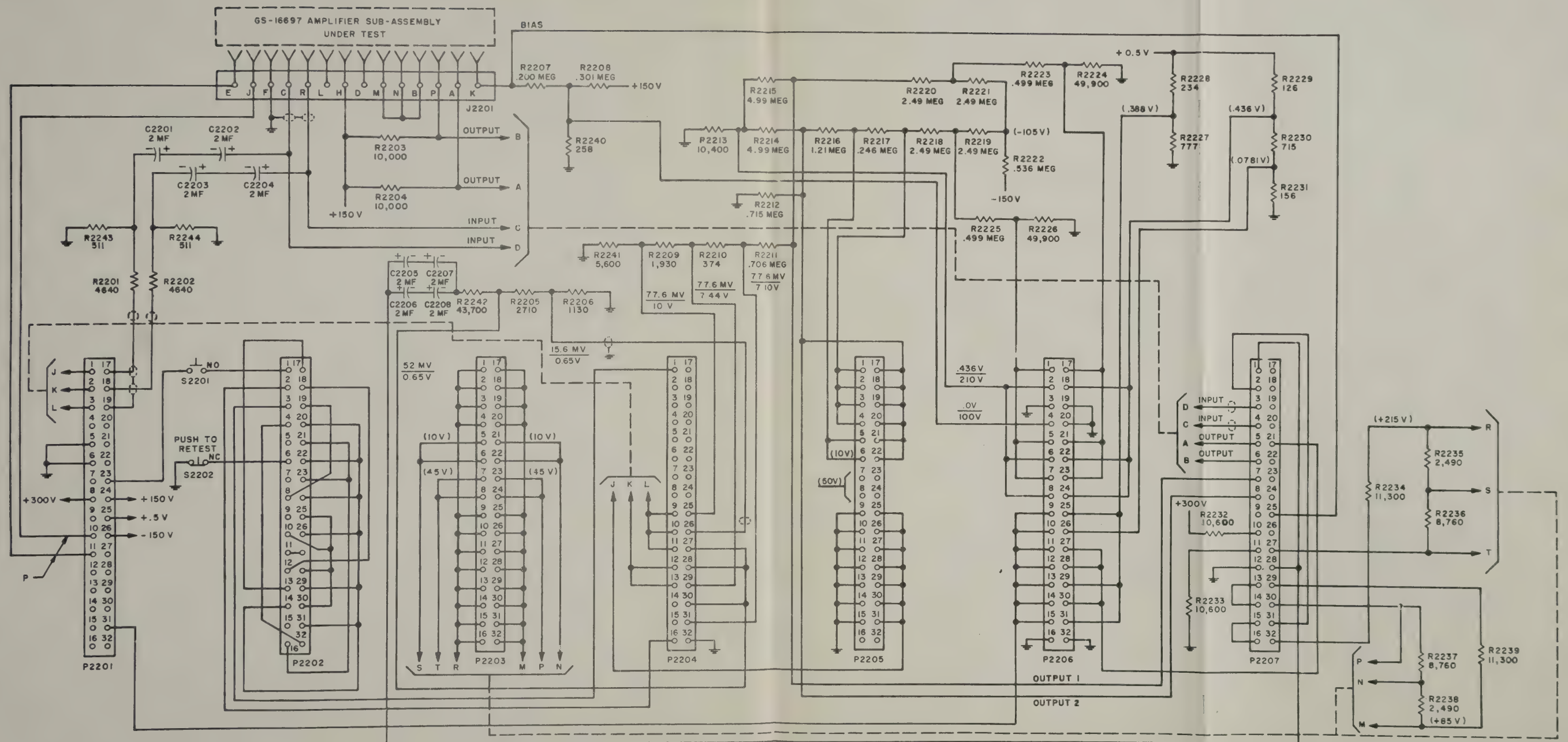


Figure 5-23. GS-17462 Test Adapter Schematic (G-234625, Rev. D)

GS-17463 ADAPTER, TEST						
APPARATUS LIST						
REF DESIG	VALUE	TOL ± %	MFR'S RATING		TYPE, PART OR DRAWING NO.	REMARKS
			WATTS	VOLTS		
C2301	180 μF	2	↑	3.5	CC35CH181G	T.C+ 0 ± 60 PPM
C2302	↑	↑	↑	↑	↑	↑
C2303	↑	↑	↑	↑	↑	↑
C2304	↑	↑	↑	↑	↑	↑
C2305	↑	↑	↑	↑	↑	↑
C2306	180 μF	2	↑	3.5	CC35CH181G	T.C+ 0 ± 60 PPM
C2307	180 μF	2	↑	3.5	CC35CH181G	T.C+ 0 ± 60 PPM
J2301					BL-722565	
P2301					BA-98466-1	MODIFY PER Q-235994
P2302					BA-58456	
P2303					↑	
P2304					↑	
P2305					BA-98456	
P2306					BA-98466-1	
P2307					BA-98466-1	
R2301	3480	.25	.03	1	D-178618B	
R2302	796	.25	*	1	↑	
R2303	673	.25	*	1	↑	
R2304	24.9	.25	*	.05	D-178618B	
R2305	511	1.0	*	.04	D-176176A	
R2306	550	1.0	*	.06	↑	
R2307	517	1.0	*	.04	↑	
R2308	0.455 MEG	1.0	*	.2	↑	
R2309	0.455 MEG	1.0	*	.2	↑	
R2310	15,000	1.0	*	.04	D-176176A	
R2311	252	.25	*	12	D-178618B	
R2312	383	.25	*	11	D-178618B	
R2313	1.93 MEG	1.0	*	3.5	D-176176A	
R2315	1000	.5	*	.5	D-178618B	
R2316	22.1	.25	*	.08	↑	
R2317	94.2	.25	*	.05	↑	
R2318	187	.25	*	.07	↑	
R2319	62.6	.25	*	.03	↑	
R2320	10,000	1.0	.01	10	D-178618B	
R2321	45,000	1.0	*	3.5	D-176176A	
R2322	75,000	.25	*	20	D-178619B	
R2323	2370	.25	*	0.6	D-178618B	
S2301					G-231285	
V2301					5718	MIL-E-1B

NOTES:

1. ALL VALUES ARE EXPRESSED IN OHMS UNLESS OTHERWISE INDICATED.

2. * NEGLIGIBLE, LESS THAN 0.01 WATTS OR VOLTS.

Figure 5-24. GS-17463 Test Adapter Apparatus List (G-234697)

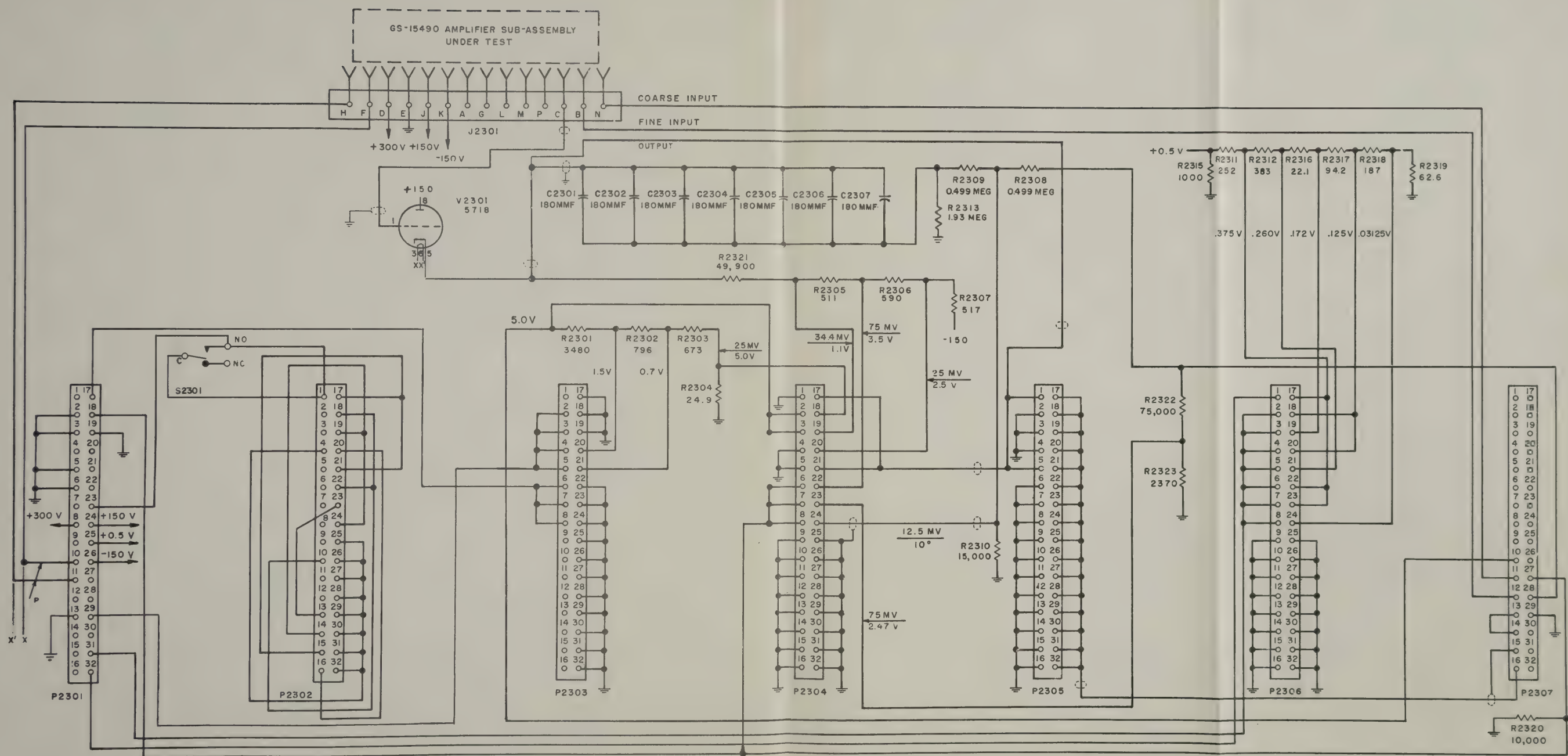


Figure 5-24. GS-17463 Test Adapter Schematic (G-234572, Rev. D)

GS-17464 ADAPTER, TEST						
APPARATUS LIST						
REF DESIG	VALUE	TOL ± %	MFR'S RATING		TYPE, PART OR DRAWING NO.	REMARKS
			WATTS	VOLTS		
C2401	15 μμF	20	-	.2	CC21CK150C	JAN-C-20A
E2401					Q-234143	
J2401					BL-722564	
P2401					BA-98466-1	MODIFY PER G-235994
P2402					BA-98456	
P2403					↑	
P2404					↓	
P2405					BA-98456	
P2406					BA-98466-1	
P2407						
R2401	113	5.0	.22	5	GA-50083A1130	
R2402	51.1	5.0	.12	2.5	GA-50508A51R1	
R2403	5110	5.0	.04	15	GA-50508A5111	
R2404	5110	5.0	.04	15	GA-50508A5111	
R2405	150	.25	*	0.1	D-178618B	
R2406	30.1	.25	*	.03	D-178618B	
R2408	0.499 MEG	1.0	.20	100	D176176A	
R2409	8.450	1.0	*	2.5	D176176A	
R2410	32.0	1.0	*	*	D176176A	
R2411	127	1.0	*	.03	D176176A	
R2412	1000	0.5	*	.5	D-178618B	
R2413	124	.25	*	.06	D-178618B	
R2414	94.2	.25	*	.05	D-178618B	
R2415	156	.25	*	.08	D-178618B	
R2416	626	.25	*	.31	D-178618B	

- NOTES:
1. ALL VALUES ARE EXPRESSED IN OHMS AND MICROFARADS UNLESS OTHERWISE INDICATED.
 2. * INDICATES NEGLIGIBLE WATTS OR VOLTAGE (LESS THAN .01 WATTS OR VOLTS).

Figure 5-25. GS-17464 Test Adapter Apparatus List (G-234618)

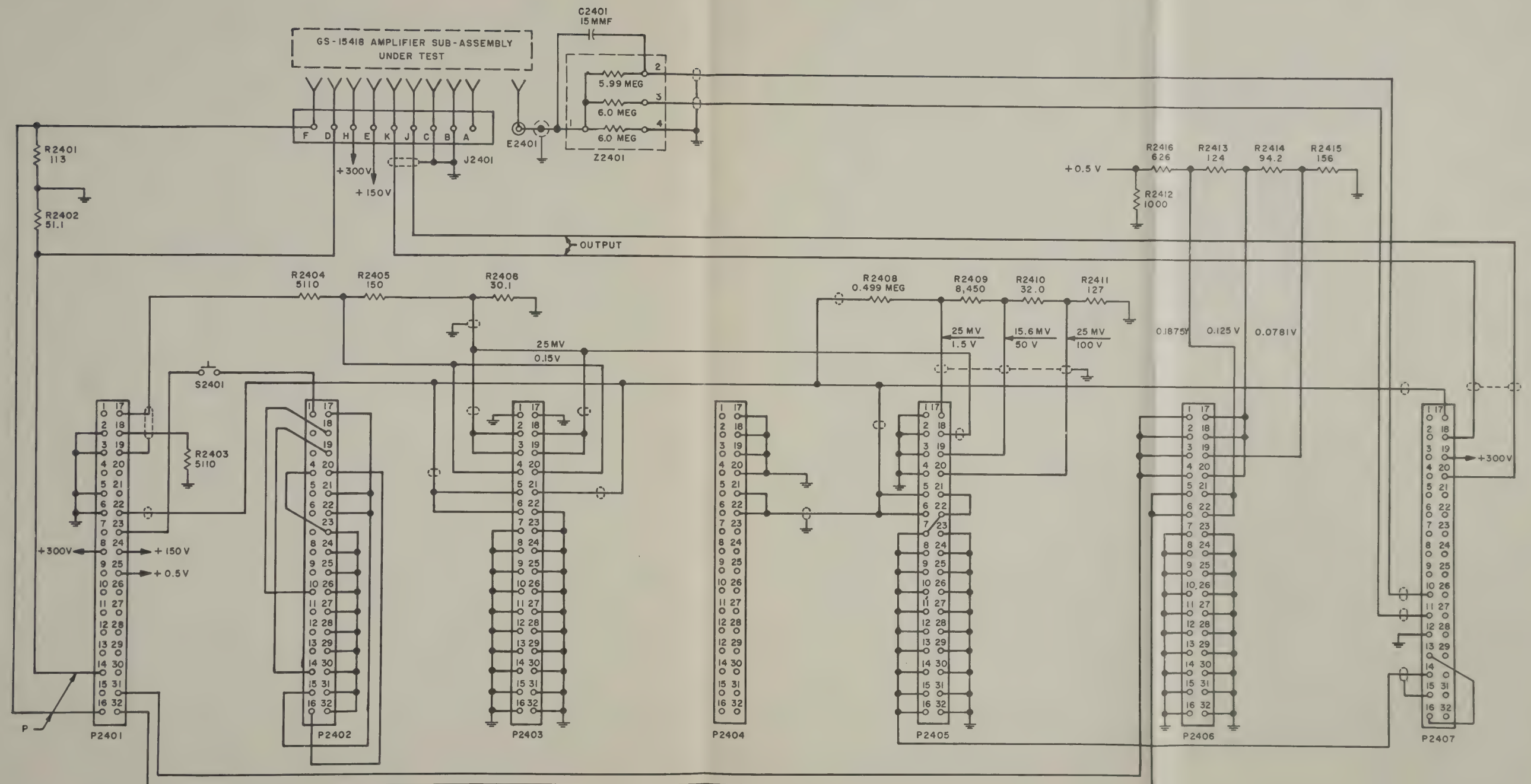


Figure 5-25. GS-17464 Test Adapter Schematic (G-234536, Rev. D)

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

GS-17465 ADAPTER, TEST						
APPARATUS LIST						
REF DESIG	VALUE	TOL ± %	MFR'S RATING		TYPE, PART OR DRAWING NO.	REMARKS
			WATTS	VOLTS		
JC501					BL-722565	
K2501					BA-10059-13	
K2502					BA-10059-13	
P2501					BA-98466-1	MODIFY PER G-235994
P2502					BA-98456	
P2503					BA-98456	
P2504					BA-98456	
P2505					BA-98466-1	
R2501	5110	5.0	*	5	GA-50508A5111	
R2502	25,000	0.25	0.31	150	D-178619B	
R2503	25,000	0.25	*	0.13	D-178618B	
R2504	25,000	0.25	*	0.13	D-178618B	
R2505	25,000	0.25	*	0.38	D-178618B	
R2506	25,000	0.25	*	0.28	D-178618B	
R2507	25,000	0.25	*	0.07	D-178618B	
R2508	25,000	0.25	*	0.14	D-178618B	
R2509	25,000	0.25	0.31	150	D-178619B	
R2510	25,000	0.25	*	.02	D-178618B	
R2511	25,000	0.25	0.31	150	D-178619B	
R2512	25,000	0.25	*	.02	D-178618B	
R2513	10	10	*	.03	GA-50508C4991	
R2514	10	10	*	.03	GA-50508C1000	
R2515	25,000	1.0	*	.25	D-176176A	
R2516	25,000	1.0	*	.03	D-176176A	
R2517	1060	1.0	*	.02	D-176176A	
R2518	125	1.0	*	0.02	D-176176A	
R2519	50,300	1.0	*	5	D-176176A	
R2520	57,200	1.0	*	6	D-176176A	
R2521	1.39 MEG	1.0	.02	160	D-176176A	
R2522	27,000	10	*	*	RC20GF273J	MIL-R-11A
R2523	43,000	1.0	*	2	D-176176A	
R2524	13,200	1.0	*	1	D-176176A	
R2525	1.39 MEG	1.0	*	.50	D-176176A	
R2526	2.0 MEG	1.0	0.01	170	D-176176A	
R2527	2.0 MEG	1.0	0.01	170	D-176176A	
R2528	76,800	1.0	*	3	D-176176A	
R2529	4.39 MEG	1.0	*	50	D-176176A	
R2530	2.0 MEG	1.0	0.01	170	D-176176A	
R2531	2.0 MEG	1.0	0.01	170	D-176176A	
R2532	2.0 MEG	1.0	*	.0	D-176176A	
R2533	1,960	1.0	*	0.2	D-176176A	
R2534	0.750 MEG	1.0	0.03	150	D-176176A	
R2535	15,000	1.0	*	3.0	D-176176A	
R2536	68,100	1.0	*	12	D-176176A	
R2537	0.706 MEG	1.0	0.03	147	D-176176A	
R2538	5.30 MEG	1.0	*	.5	GA-50086A5304	
R2539	0.100 MEG	1.0	0.02	140	D-176176A	
R2540	0.100 MEG	1.0	0.02	140	D-176176A	
R2541	18,700	1.0	*	22V	D-176176A	
R2542	18,700	1.0	*	22V	D-176176A	
S2501					G-231285	
S2502					G-231285	

- NOTES:
1. ALL VALUES ARE EXPRESSED IN OHMS UNLESS OTHERWISE INDICATED.
 2. * NEGLIGIBLE, LESS THAN 0.01 WATTS OR VOLTS.

Figure 5-26. GS-17465 Test Adapter Apparatus List (G-234628)

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

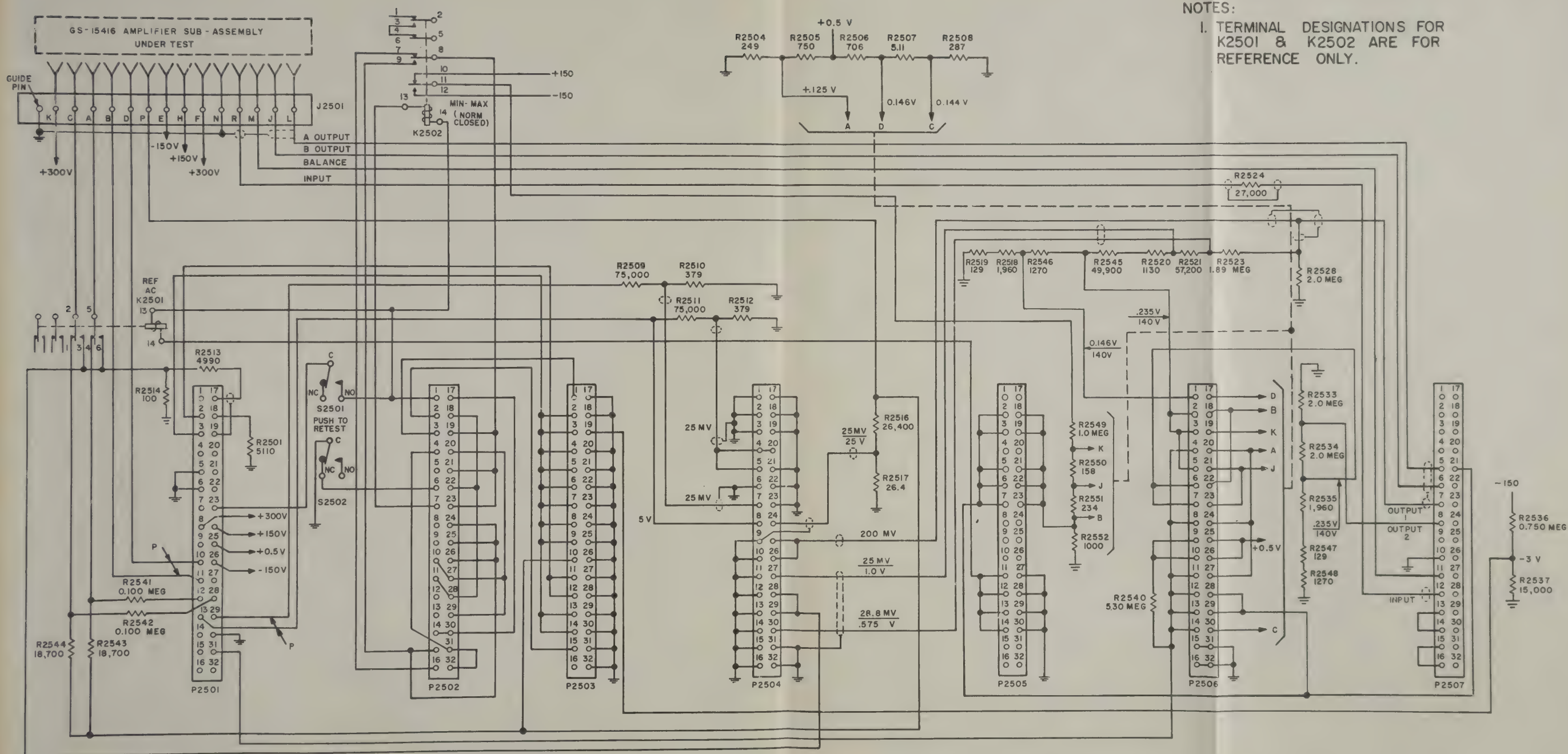


Figure 5-26. GS-17465 Test Adapter Schematic (G-234627, Rev. F)

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

GS-17466 ADAPTER, TEST						
APPARATUS LIST						
REF DESIG	VALUE	TOL ± %	MFR'S RATING		TYPE, PART OR DRAWING NO.	REMARKS
			WATTS	VOLTS		
J2601					BL-722566	
P2601					BA-98466-1	MODIFY PER G-235994
P2602					BA-98456	
P2603					↕	
P2604					BA-98456	
P2605					BA-98466-1	
P2606						
P2607						
R2601	10,000	25	.02	18	D-178619B	
R2602	43,700	↕	.14	70	D-178619B	
R2603	18,000	↕	.07	36	D-178619B	
R2604	4,590	↕	.02	9	D-178618B	
R2605	2,710	↕	.01	5.4	↕	
R2606	541	↕	*	1.	↕	
R2607	237	↕	*	.5	↕	
R2608	26.4	25	*	.05	D-178618B	
R2609	14,500	1.0	*	.46	D-176176A	
R2610	16,200	↕	*	.46	D-176176A	
R2611	16,500	↕	*	.47	D-176176A	
R2612	1,270	↕	*	.04	D-176176A	
R2613	1,650	↕	*	.05	D-176176A	
R2614	732	↕	*	.03	D-176176A	
R2615	511	1.0	*	.01	D-176176A	
R2616	249	25	*	.38	D-178618B	
R2617	114	↕	*	.06	D-178618B	
R2618	24.0	↕	*	.01	D-178618B	
R2619	16.9	25	*	*	D-178618B	
R2621	42,200	5.0	.13	.75	GA-50084A-4222	
R2622	316	25	*	.06	D-178618B	
R2623	22.1	25	*	.01	D-178618B	
R2624	73.2	25	*	.04	D-178618B	
R2625	51,000	5	2	.5	RC420F513J	MIL-R-11A
S2601					G-231285	
V2601					5718	MIL-E-1B

- NOTES:
- 1. ALL VALUES ARE EXPRESSED IN OHMS.
 - 2. * INDICATES NEGLIGIBLE WATTAGE OR VOLTAGE (LESS THAN 0.01 WATT OR VOLTS)

Figure 5-27. GS-17466 Test Adapter Apparatus List (G-234629)

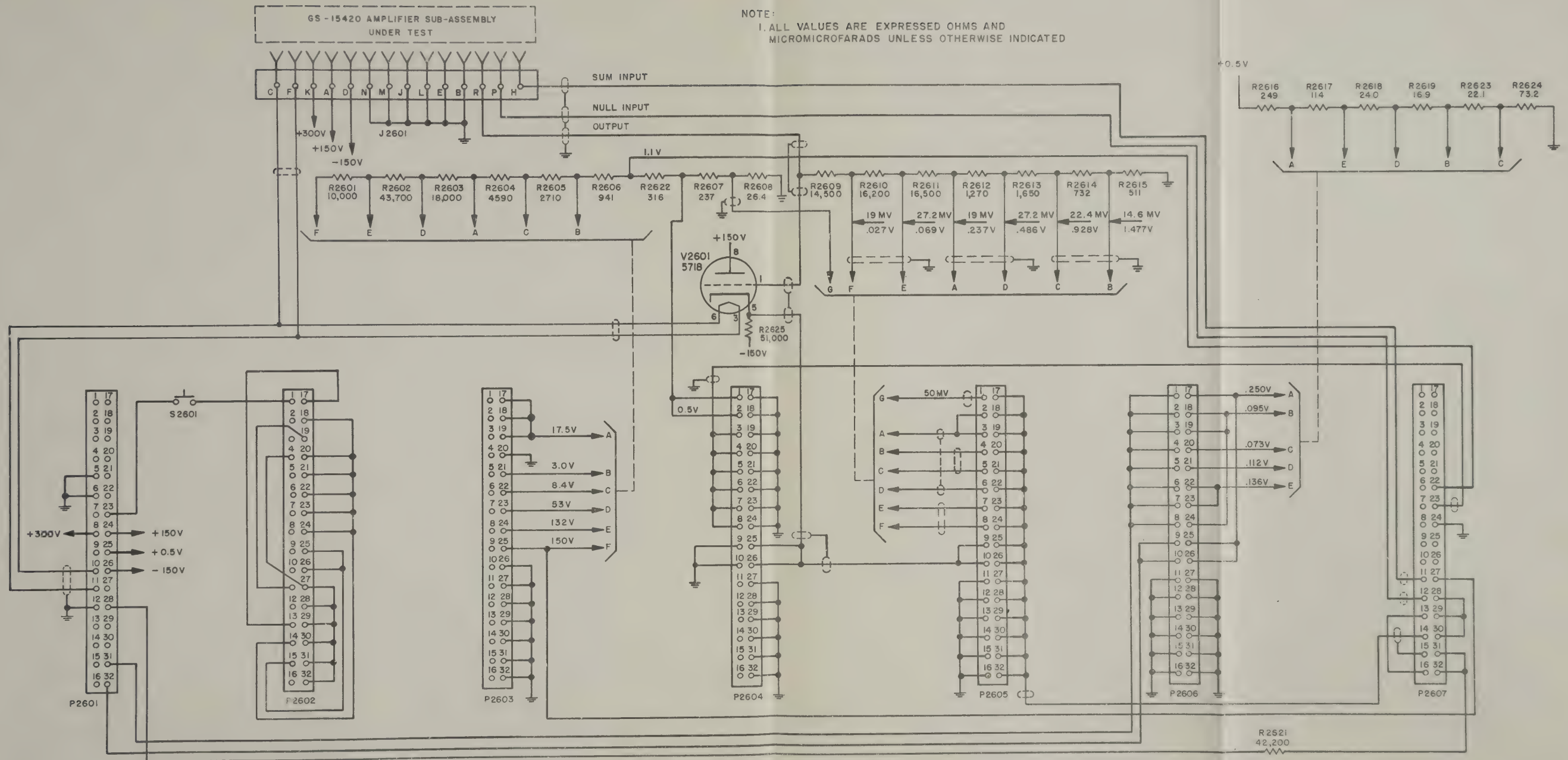


Figure 5-27. GS-17466 Test Adapter Schematic (G-234589, Rev. C)

GS-17467 ADAPTER, TEST						
APPARATUS LIST						
REF DESIG	VALUE	TOL ± %	MAX OPER		TYPE, PART OR DRAWING NO.	REMARKS
			WATTS	VOLTS		
E2701					G-234143	
J2701					BL-722566	
P2701 P2702 P2703 P2704 P2705 P2706 P2707					BA-98466-1 BA-98456 ↓ BA-98456 BA-98466-1	MODIFY PER G-235994
R2701	845	.25	*	2.7	D-178618B	
R2702	158	.25	*	.6	D-178618B	
R2703	30,100	5.0	*	*	GA-50508A3012	
R2704	73,740	0.1	.305	150	D-178619C	
R2705	0.499 MEG	1.0	*	*	D176176A	
R2706	4.99 MEG	1.0	*	3.0	D176176A	
R2707	26,700	1.0	*	.03	D176176A	
R2708	53,600	1.0	*	.03	D176176A	
R2709	3,480	1.0	*	*	D176176A	
R2710	189	.25	*	.38	D-178618B	
R2711	57.6	.25	*	.12	D-178618B	
R2712	1000	.5	*	.5	D-178618B	
R2713	768	.25	*	.38	D-178618B	
R2714	234	.25	*	.12	D-178618B	
R2715	2.98 MEG	1.0	*	150	D176176A	
R2716	10,000	.25	*	.5	D-178618B	
R2717	10,000	.25	*	.5	D-178618B	
R2718	10,000	.25	*	.5	D-178618B	
R2719	10,000	.25	*	.5	D-178618B	
R2720	2.91 MEG	1.0	*	150	D176176A	
R2721	.594 MEG	1.0	*	5	D176176A	
S2701					G-231285	

- NOTES:
1.

ALL VALUES ARE EXPRESSED IN OHMS UNLESS OTHERWISE INDICATED.
2.

* INDICATES NEGLIGIBLE WATTS OR VOLTAGE (LESS THAN .01 WATTS OR VOLTS).

Figure 5-28. GS-17467 Test Adapter Apparatus List (G-234607)

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

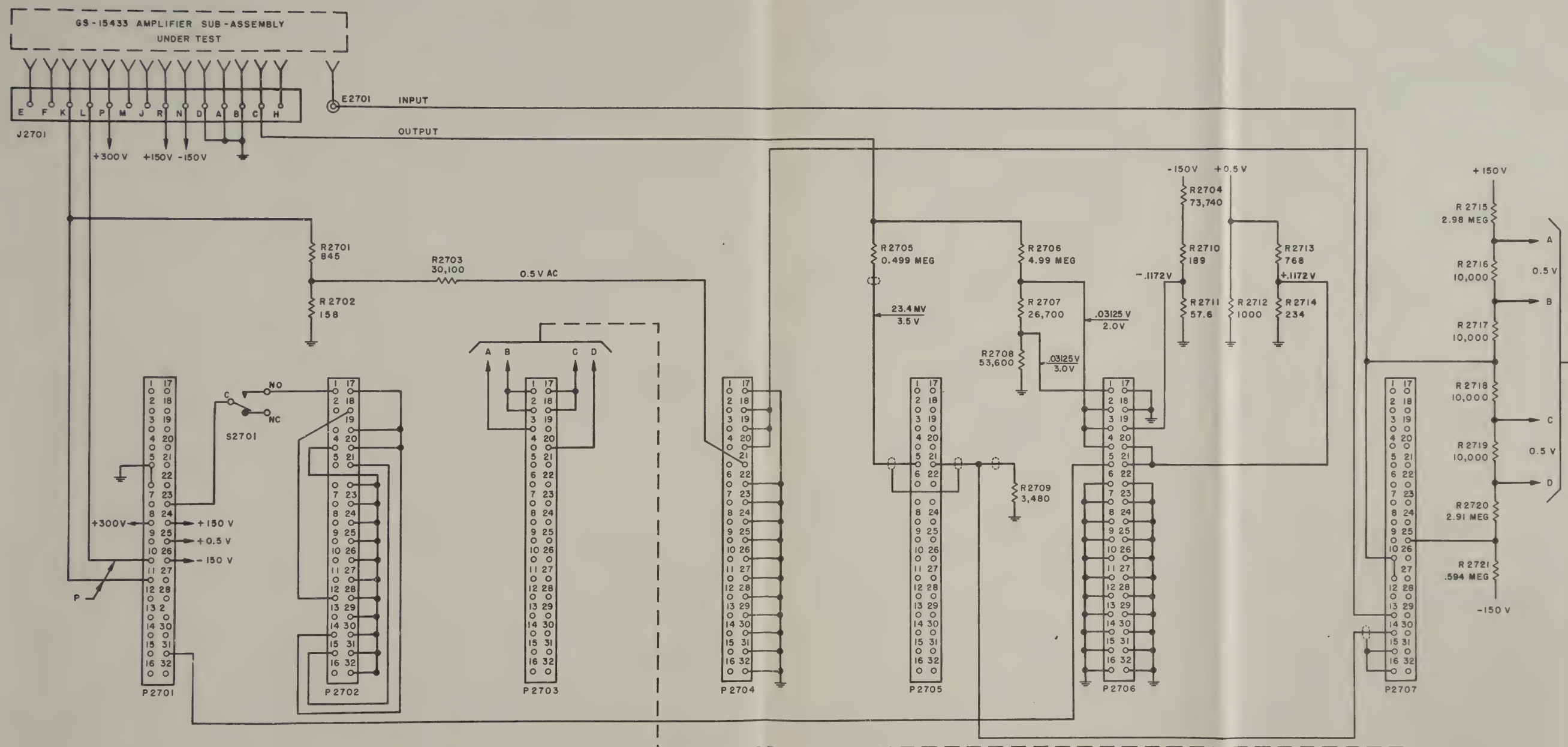


Figure 5-28. GS-17467 Test Adapter Schematic (G-234537, Rev. C)

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

GS-17468 ADAPTER, TEST						
APPARATUS LIST						
REF DESIG	VALUE	TOL ± %	MAX OPER		TYPE, PART OR DRAWING NO.	REMARKS
			WATTS	VOLTS		
C2801	15	20%		1.4	GA-51575	JAN-C-5
C2802	15	20%		1.4	GA-51575	
C2803	.01	20%		*	CM35B103J	
J2801					G-206214	
P2801					BA-98466-1	MODIFY PER G-235994
P2802					BA-98456	
P2803						
P2804						
P2805						
P2806					BA-98456	
P2807					BA-98466-1	
R2801	2740	1.0	*	*	GA-50084A2741	
R2802	5110	2.0	.02	10	GA-50508A5111	
R2803	80,090	0.1	.27	150	D-178619C	
R2804	741	0.1	*	1.4	D-178618C	
R2805	3050	0.1	.15	20	D-178618C	
R2806	2080	0.1	.04	8	D-178618C	
R2807	10,560	0.1	*	10	D-178618C	
R2808	67	0.1	*	.02	D-178618C	
R2809	44.8	0.1	*	*	D-178618C	
R2810	422	0.1	*	.08	D-178618C	
R2811	5.11 MEG	1.0	*	.25	GA-50086A5114	
R2812	29,400	1.0	*	.15	D-176176A	
R2813	0.787 MEG	1.0	*	1.0	D-176176A	
R2814	80,600	0.1	*	.03	D-178619C	
R2815	80,600	0.1	*	.03	D-178619C	
R2816	80,600	0.1	*	.03	D-178619C	
R2817	80,600	0.1	*	.03	D-178619C	
R2818	80,600	0.1	*	.03	D-178619C	
R2819	80,600	0.1	*	.03	D-178619C	
R2820	68,100	2.0	.28	140	GA-50084A6812	
R2821	75,000	0.1	.30	150	D-178619C	
R2822	126	0.1	*	.250	D-178618C	
R2823	376	0.1	*	0.44	D-178618C	
R2824	124	0.1	*	.06	D-178618C	
R2825	100	0.1	*	.05	D-178618C	
R2826	797	0.1	*	0.4	D-178618C	
R2827	114	0.1	*	*	D-178618C	
R2828	715	2.0	*	.14	GA-50508A7150	
R2829	1960	5.0	*	.07	GA-50508A1961	
R2830	1960	5.0	*	.07	GA-50508A1961	
R2831	5.0	1.0	*	16	D-176176A	
R2832	5.0	1.0	*	16	D-176176A	
R2833	.422 MEG	2.0	.04	134	GA-50083A4223	
R2834	53,600	2.0	*	16	GA-50508A5362	
S2801					G-231285	

- NOTES:
1. ALL VALUES ARE EXPRESSED IN OHMS & MICROFARADS UNLESS OTHERWISE INDICATED.
 2. * INDICATES NEGLIGIBLE WATTAGE OR VOLTAGE. (LESS THAN 0.01 WATT OR VOLTS).

Figure 5-29. GS-17468 Test Adapter Apparatus List (G-234631)

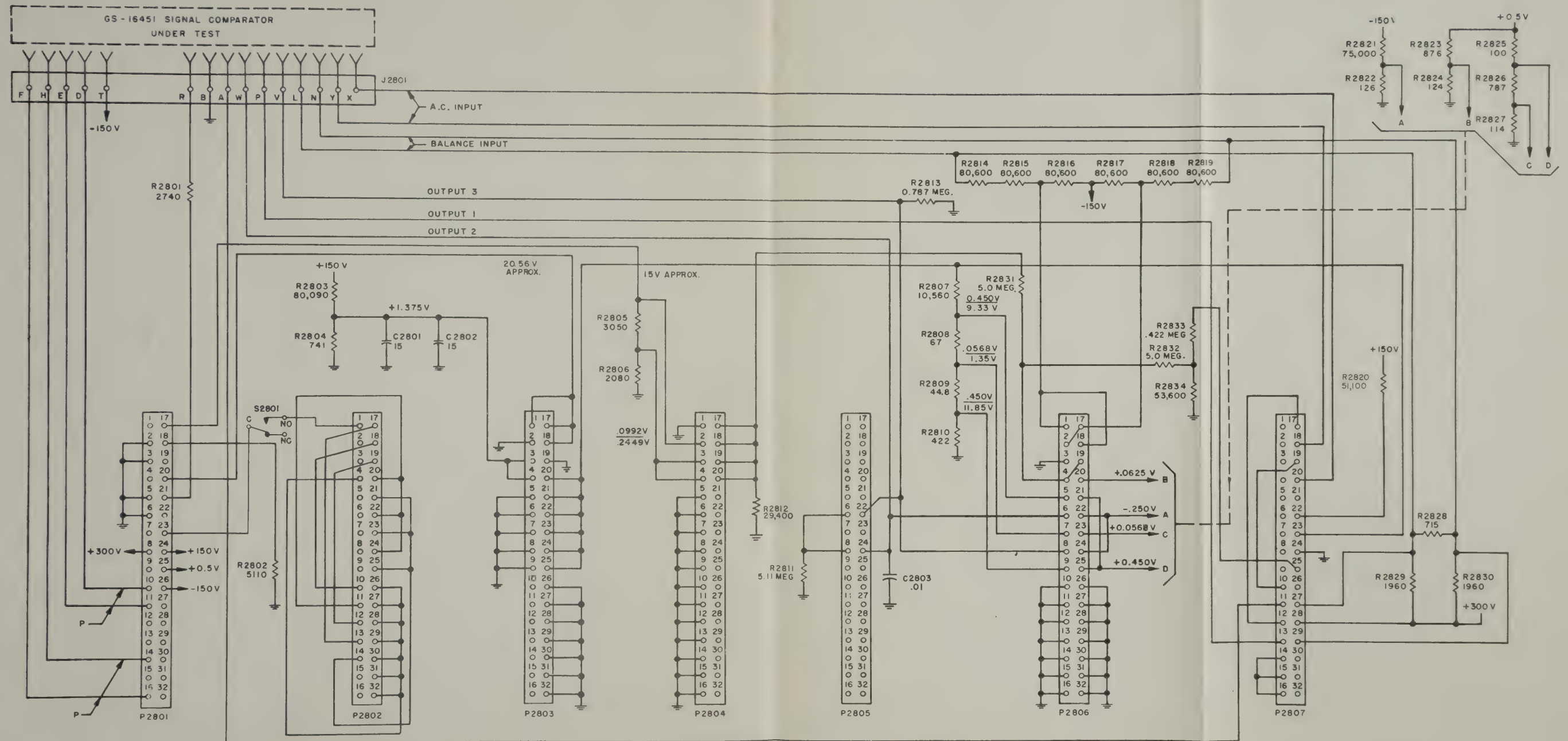


Figure 5-29. GS-17468 Test Adapter Schematic (G-234630, Rev. C)

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

GS-17469 SWITCH BOX					
APPARATUS LIST					
REF DESIG	VALUE	TOL ± %	MAX OPER		TYPE, PART OR DRAWING NO.
			WATTS	VOLTS	
J1301 J1302					G-231485-1 G-231485-1
P1301 P1302 P1306 P1307					BA-98466-1 BA-98456 BA-98456 BA-98466-1
					MODIFY PER G-235994
R1301 R1302 R1303 R1304 R1305 R1306 R1307 R1308 R1309	578 4420 1470 5110 24.9 5110 1.0 .750 MEG 47000	.25 .25 .25 2.0 2.0 2.0 10.0 5.0 5.0	* * * .05 * .05 * * *	0.5 0.4 0.1 15 .05 15 * 150 *	D-178618B ↓ D-178618B GA-50508C5111 GA-50508C24R9 GA-50508C5111 RU-31ROJ GA-50084A7503 RC42GF473J
					MIL-R-11A
S1301 S1302 S1303					G-231271 G-231271 G-234053

- NOTES:
- 1. ALL VALUES ARE EXPRESSED IN OHMS UNLESS OTHERWISE SPECIFIED.
 - 2. * NEGLIGIBLE WATTS OR VOLTS, (LESS THAN 0.01 WATT OR VOLT.)

Figure 5-30. GS-17469 Switch Box Apparatus List (G-234735)

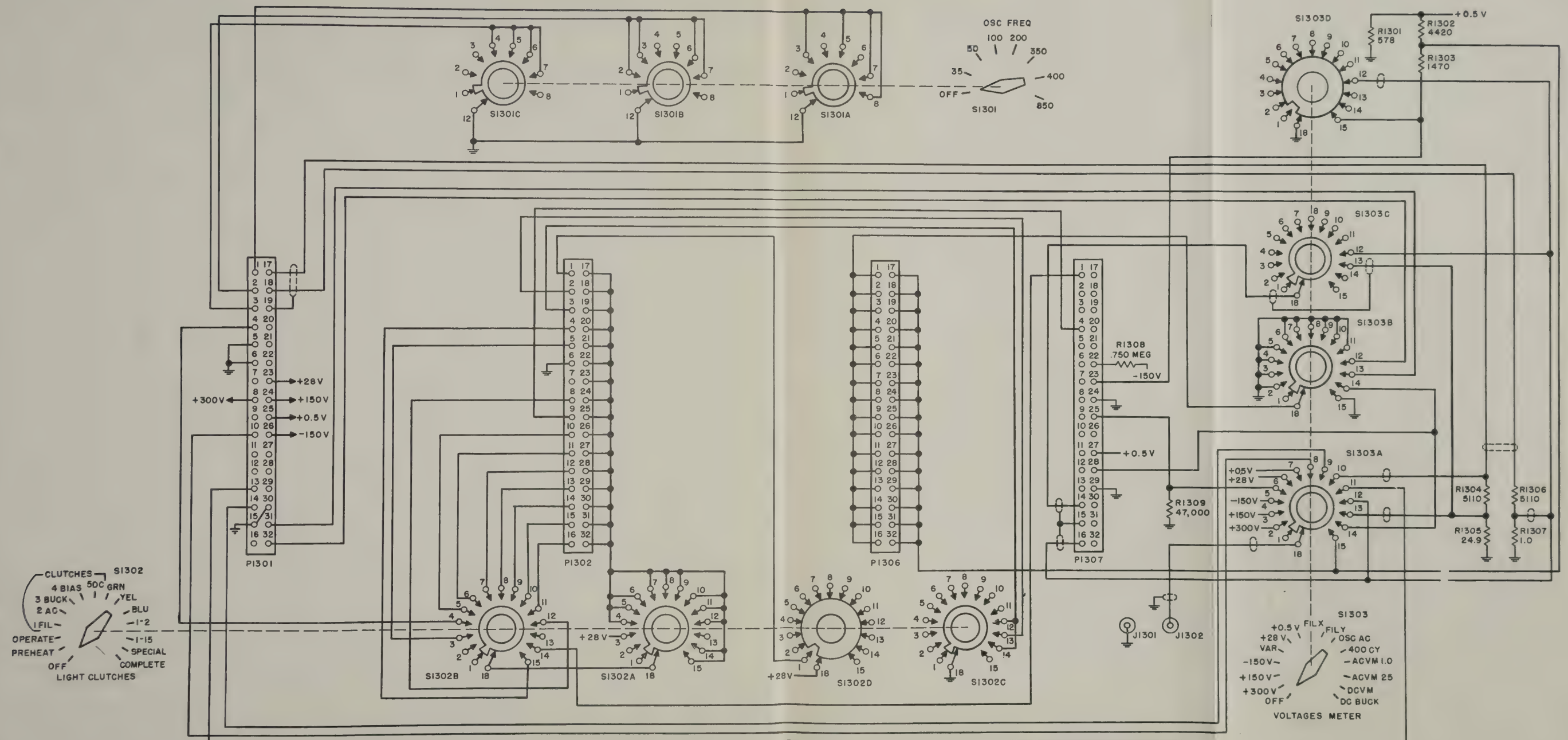
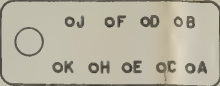


Figure 5-30. GS-17469 Switch Box Schematic (G-234274, Rev. E)

- NOTES:
- 1. ALL VALUES ARE EXPRESSED IN OHMS & MICROFARADS UNLESS OTHERWISE INDICATED.
 - 2. ASSEMBLY MUST BE FIRMLY ATTACHED TO CHASSIS TO COMPLETE GROUND CONNECTION.
 - 3. PIN ARRANGEMENT OF PI SHOWN FOR REFERENCE ONLY.



VIEWED FROM PIN SIDE

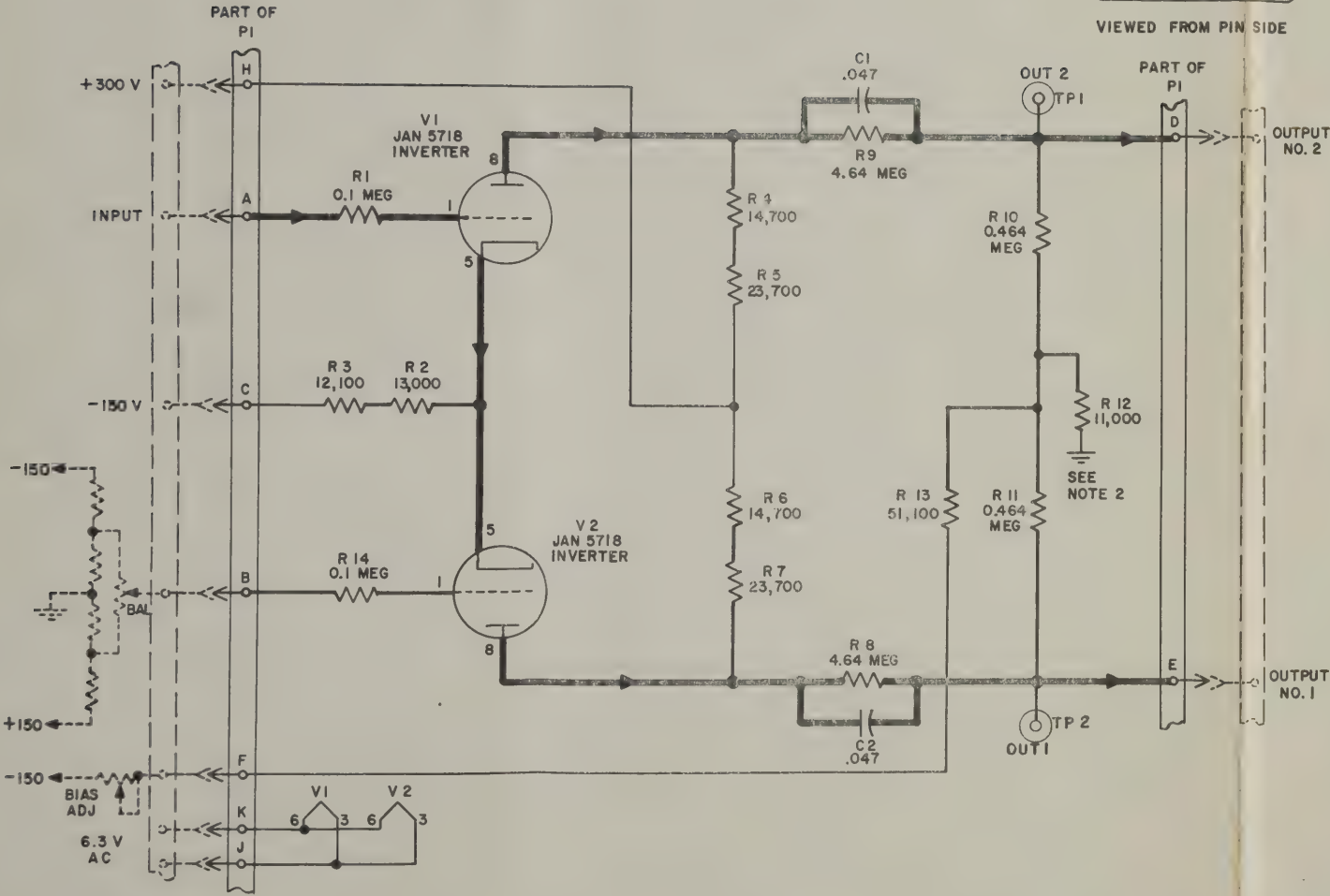
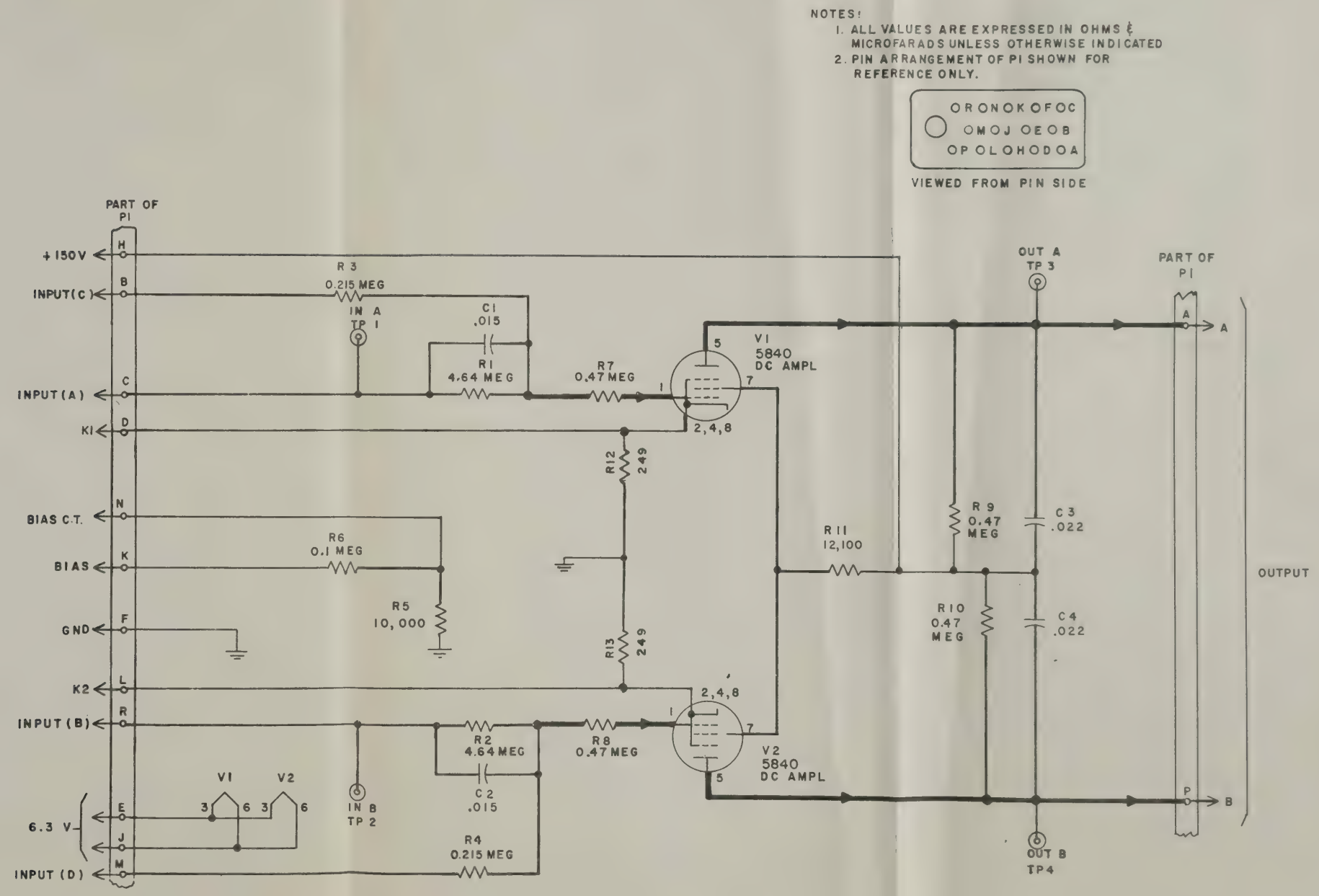


Figure 5-31. GS-15434 Amplifier Subassembly (DC) Schematic (G-200487, Issue 3)



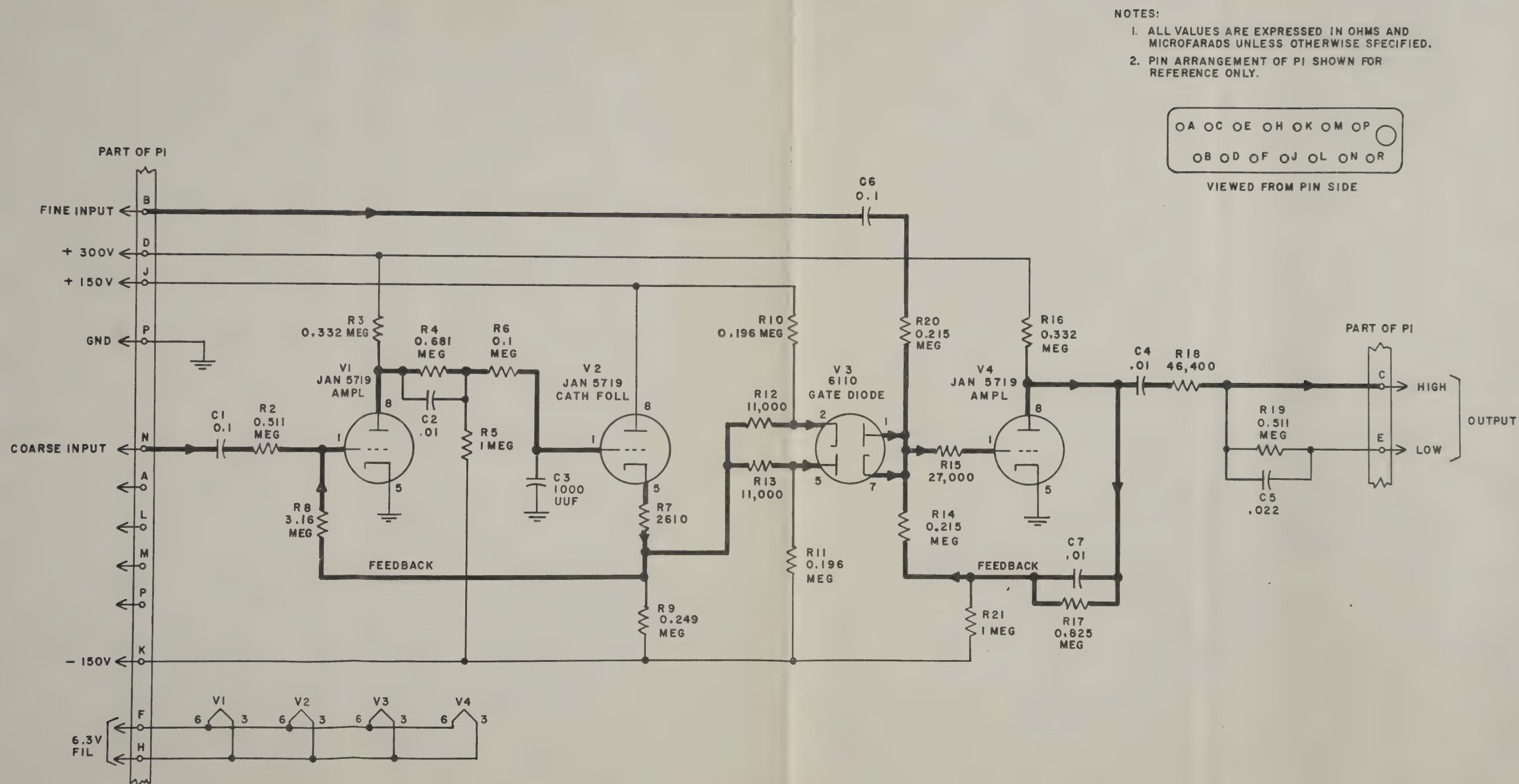


Figure 5-33. GS-15490 Amplifier Subassembly (Switching) Schematic (G-204431, Issue 2)

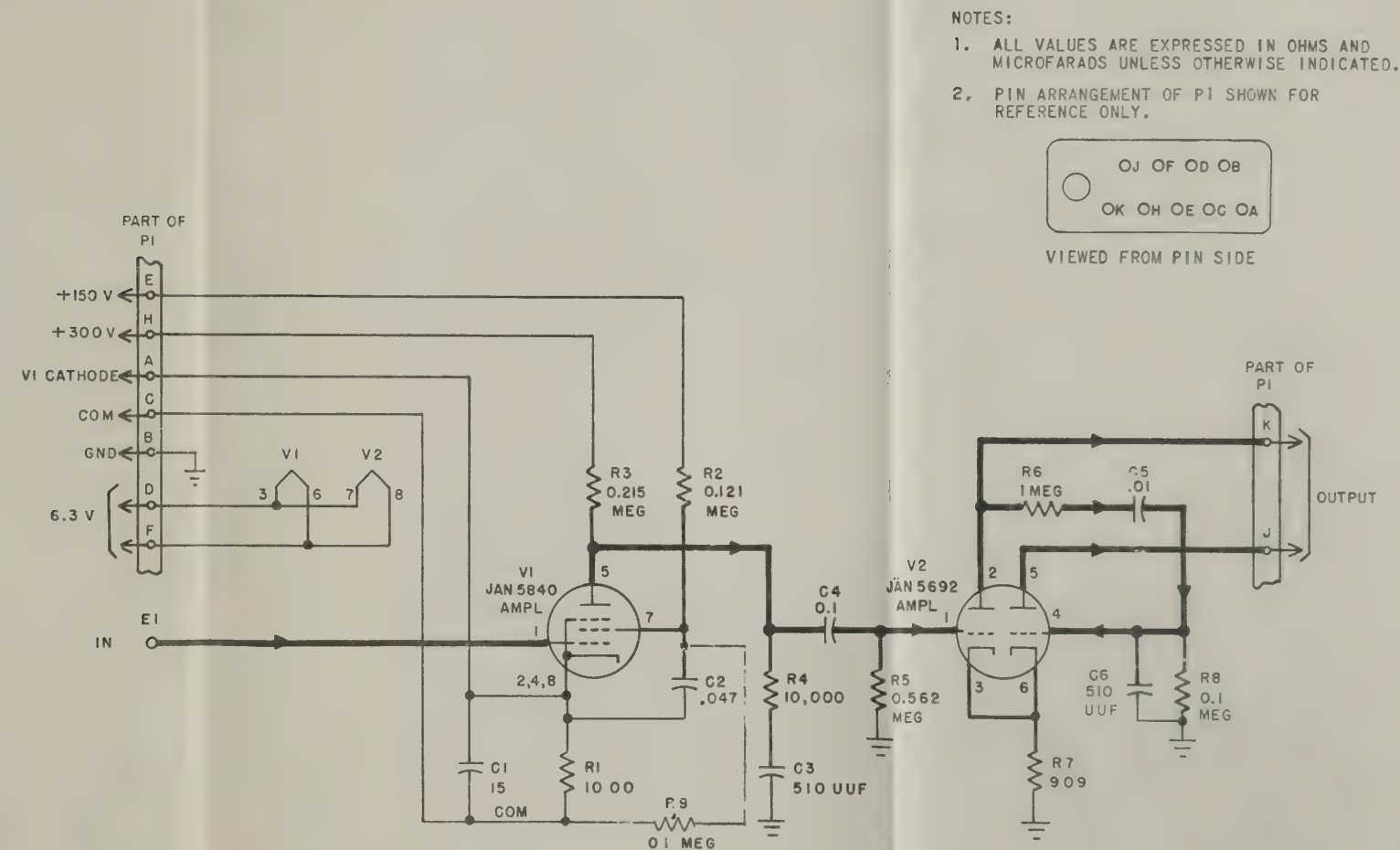


Figure 5-34. GS-15418 Amplifier Subassembly (AF) Schematic (G-200647, Issue 10)

NOTES:

1. ALL VALUES ARE EXPRESSED IN OHMS & MICROFARADS UNLESS OTHERWISE INDICATED.
2. PIN ARRANGEMENT OF PI SHOWN FOR REFERENCE ONLY.

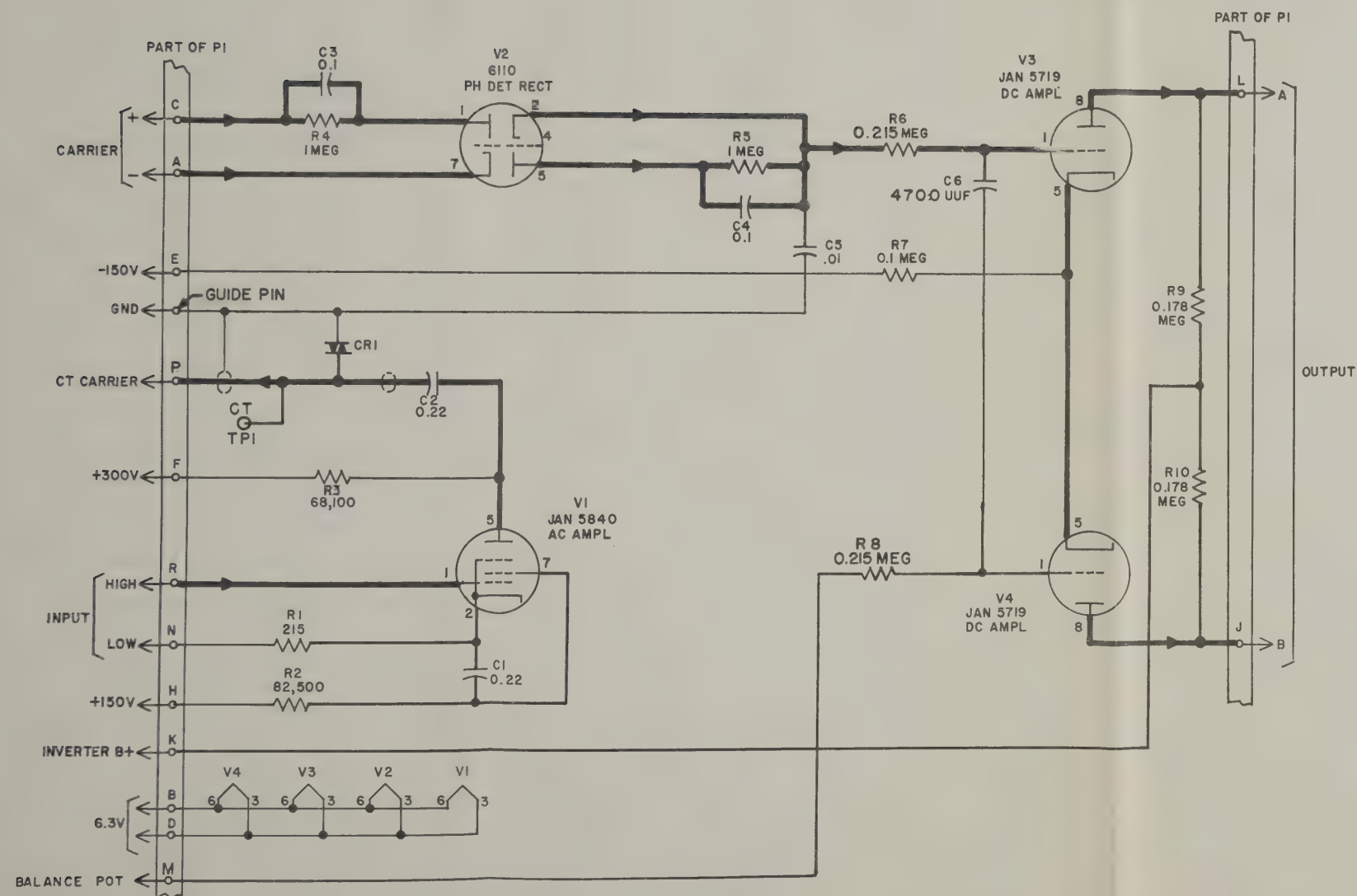
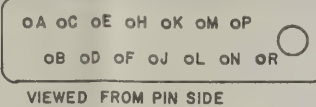


Figure 5-35. GS-15416 Amplifier Subassembly (DISC) Schematic (G-200456, Issue 3)

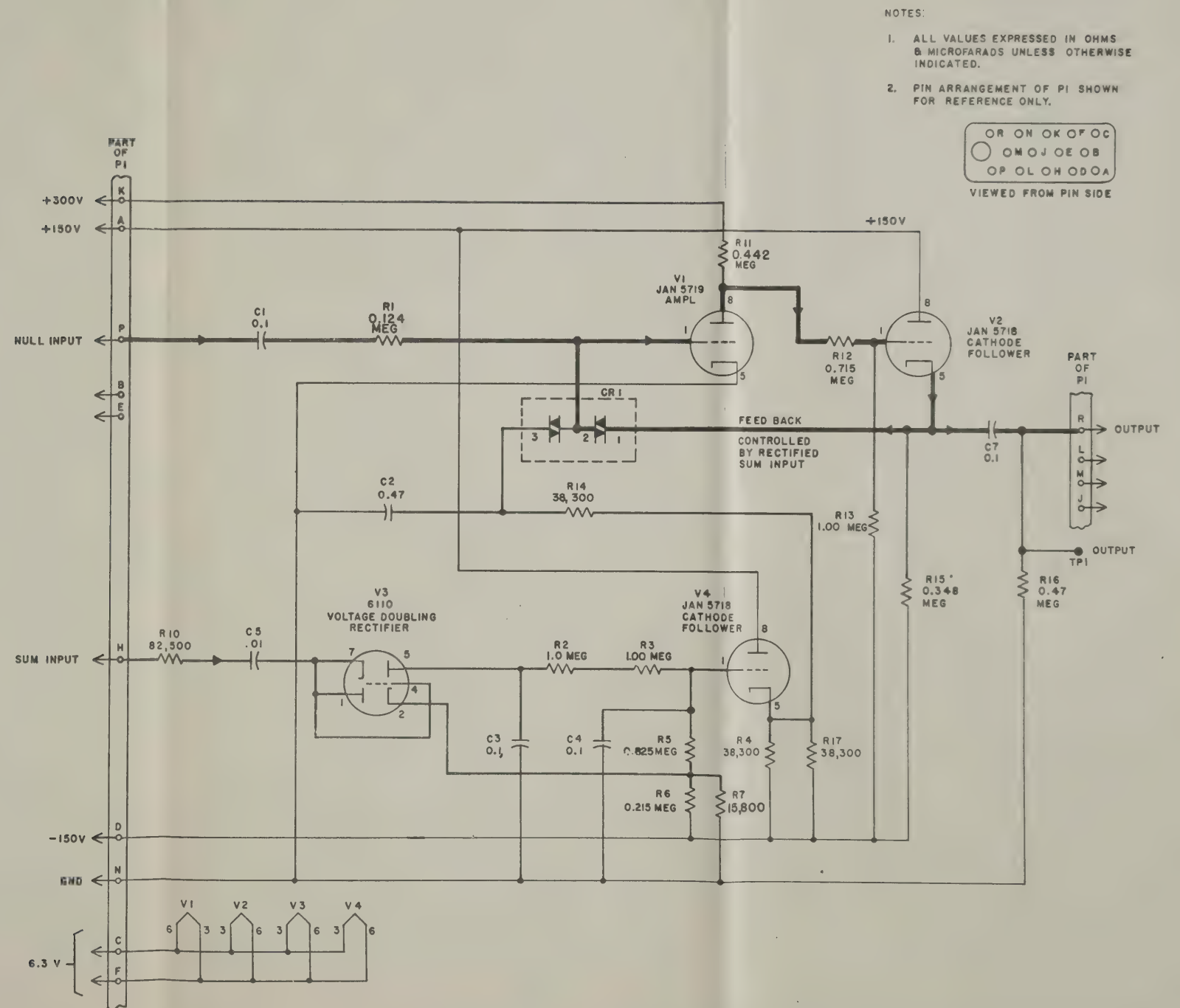


Figure 5-36. GS-15420 Amplifier Subassembly (AGC) Schematic (G-200477, Rev. F)

NOTES
1. ALL VALUES ARE EXPRESSED IN OHMS & MICROFARADS UNLESS OTHERWISE INDICATED
2. PIN ARRANGEMENT OF PI SHOWN FOR REFERENCE ONLY

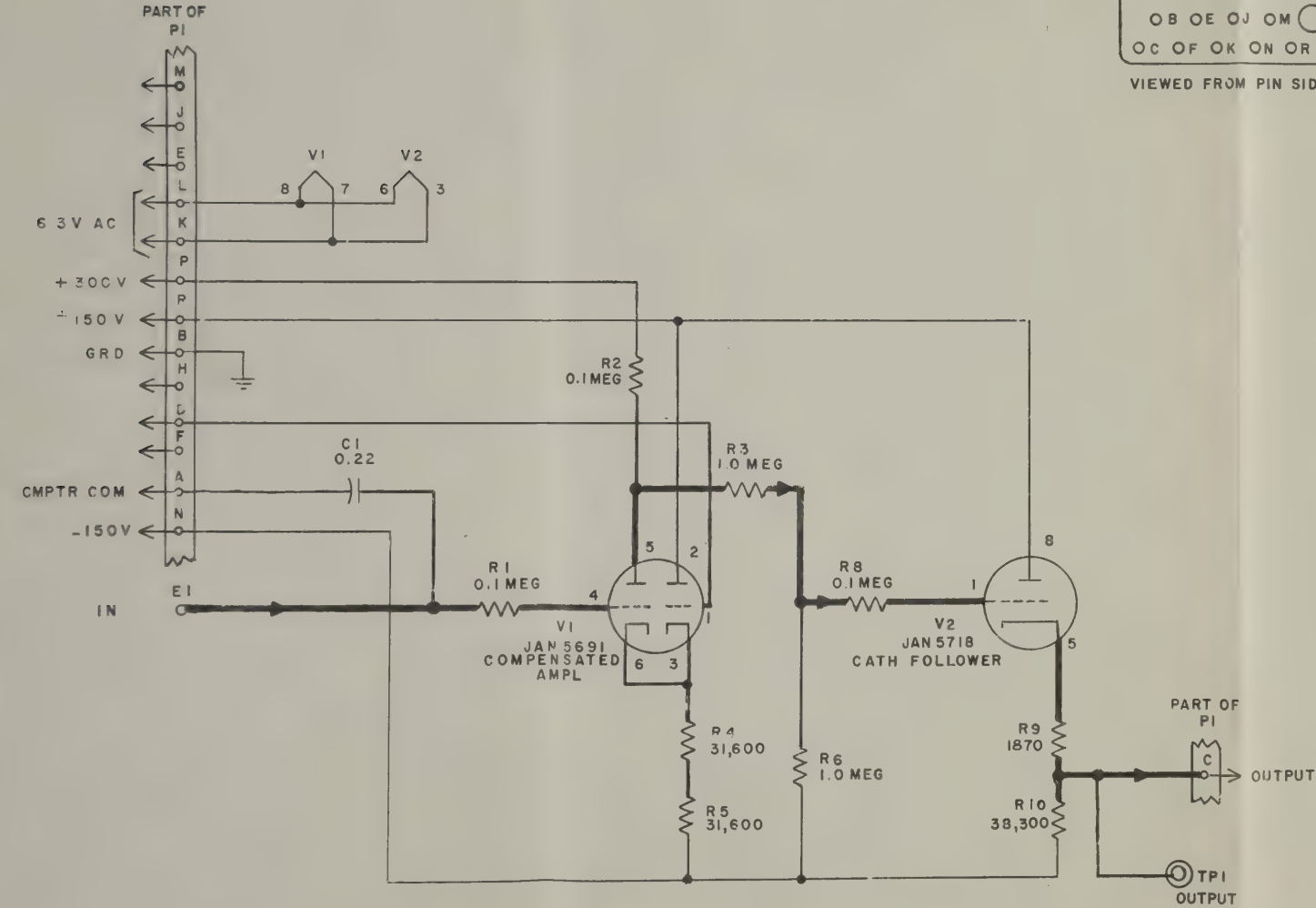
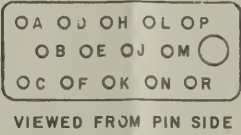


Figure 5-37. GS-15433 Amplifier Subassembly (Integrating) Schematic
(G-200697, Rev. L)

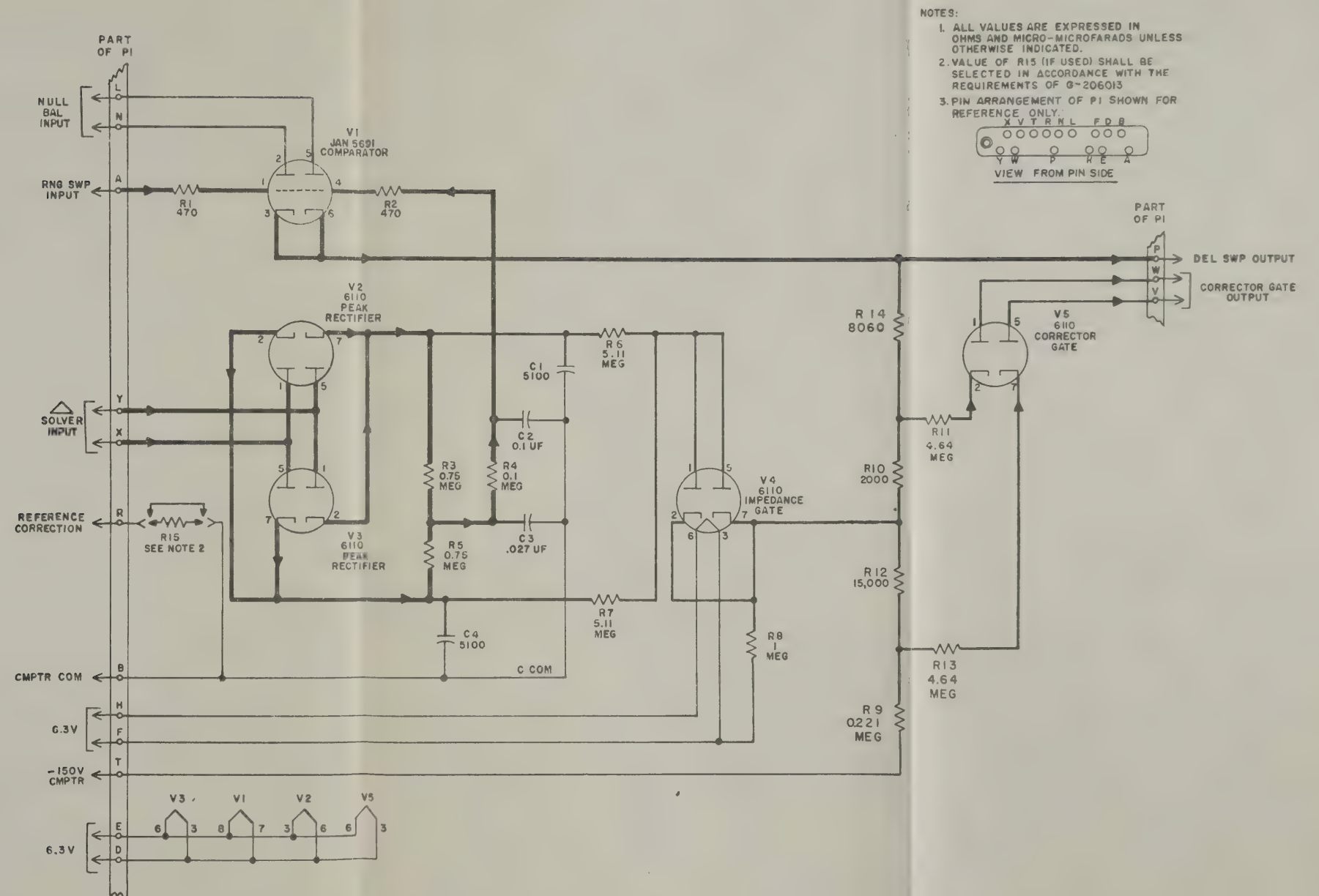


Figure 5-38. GS-16451 Signal Comparator (Slant Range) Schematic (G-208080, Issue 4)

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT



1. FOR MANUFACTURING INFORMATION SEE G-214716.
2. ALL SOLDERING SHALL BE PER GA-9017 METHOD D.
3. ALL  LEADS ARE D3 PER FIND NO. 12 UNLESS OTHERWISE SPECIFIED.
4. UNLESS OTHERWISE SPECIFIED ALL LEADS ARE IN WIRING HARNESS G-234398.
5. LEADS DESIGNATED CA2 ARE IN WIRING HARNESS G-234392.
6. LEADS DESIGNATED CA3 ARE IN WIRING HARNESS G-234393.
7. LEADS DESIGNATED CA4 ARE IN WIRING HARNESS G-234394.
8. LEADS DESIGNATED CA5 ARE IN WIRING HARNESS G-234395.
9. LEADS DESIGNATED CA6 ARE IN WIRING HARNESS G-234396.
10. LEADS DESIGNATED CA7 ARE IN WIRING HARNESS G-234397.
11. UNLESS OTHERWISE SPECIFIED SOLDER TERMINALS OF R1C23, R1010A, R1010B, R1011A, R1011B, R1012A, R1012B, 11001, 11002, 11003, 11004, 11005, 11004, 11006, 11006, 11007, 11008, 11009, 11010, 11011, 11012, 11014, 11015, 11016, 11017, B1001, T1002 & T1003 SHALL BE EQUIPPED WITH SLEEVING AS FOLLOWS:

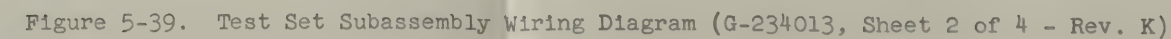
TERMINALS WITH 1 LEAD FIND NO. 5.

TERMINALS WITH 2 LEADS FIND NO. 4.

TERMINALS WITH 3 LEADS FIND NO. 3.
12. "B" DENOTES SECTION OF DISC NEAREST MOUNTING SURFACE.

✓		GA-51229	~~WHT-BRN-RED~~ ~~WHT-BL~~ WHT-BRN-YEL WHT-BLK	WIRE ELECTRICAL 22 GA STRANDED			
✓			WHT-YEL-WHT WHT-YEL	WIRE ELECTRICAL 18 GA STRANDED			
✓		G-205841	-20	WIRE, ELECTRICAL			
✓							
✓			470				
✓			Q12	INSULATION SLEEVING			
✓		GA-10236	S10	ELECTRICAL			
✓			809				
REQ	CUSTOMER'S DESIGNATION	DESIGNATION FOR W E USE		DESCRIPTION	REF DESIG	NOTE	FIN NC
LIST OF MATERIAL							
V - DENOTES QUANTITY AS REQUIRED B - DENOTES SUB-ASSEMBLY D - DENOTES PARTS TO BE SHIPPED LOOSE							

Figure 5-39. Test Set Subassembly Wiring Diagram (G-234013, Sheet 1 of 4 - Rev. M)



GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

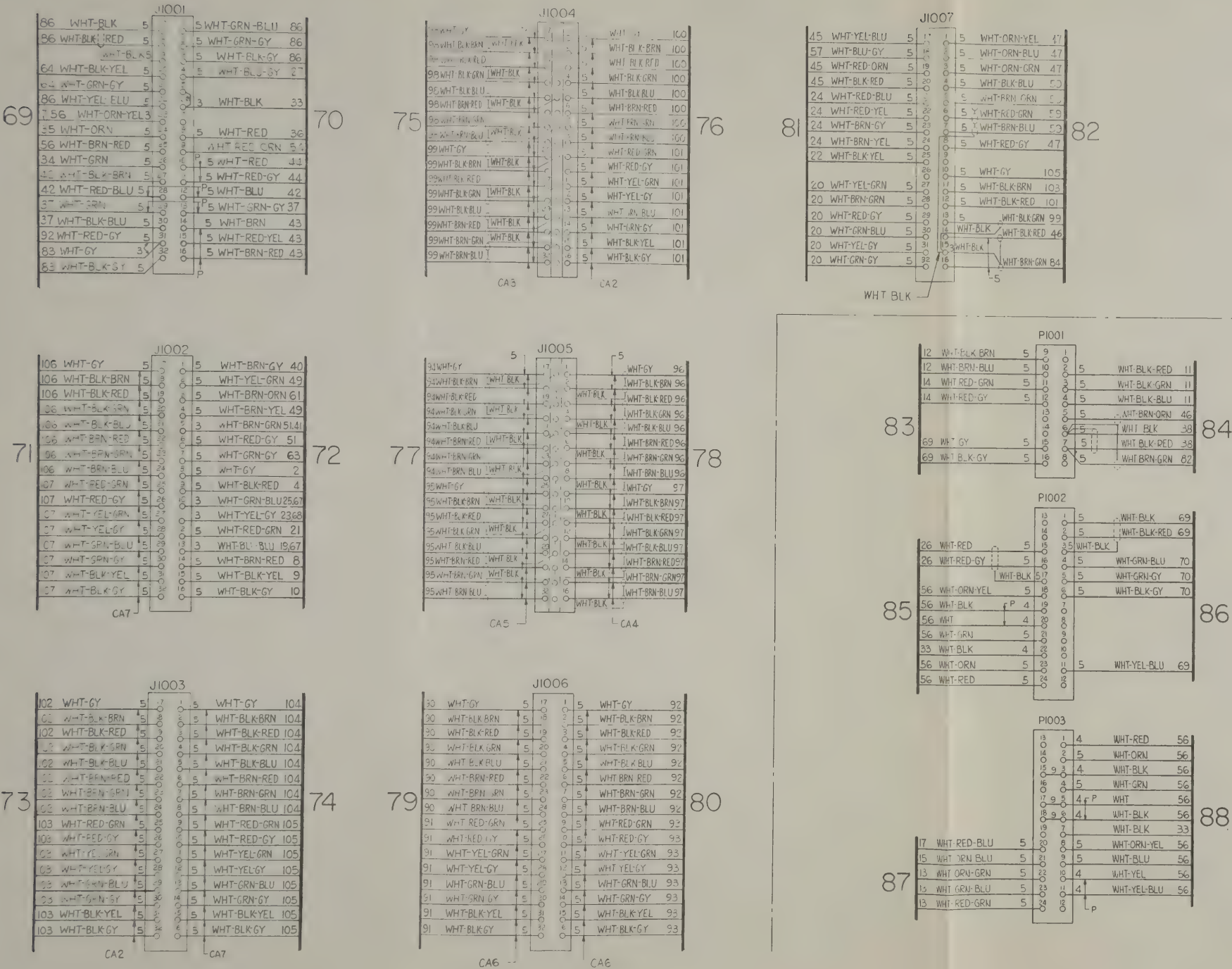


Figure 5-39. Test Set Subassembly Wiring Diagram (G-234013, Sheet 3 of 4 - Rev. F)

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

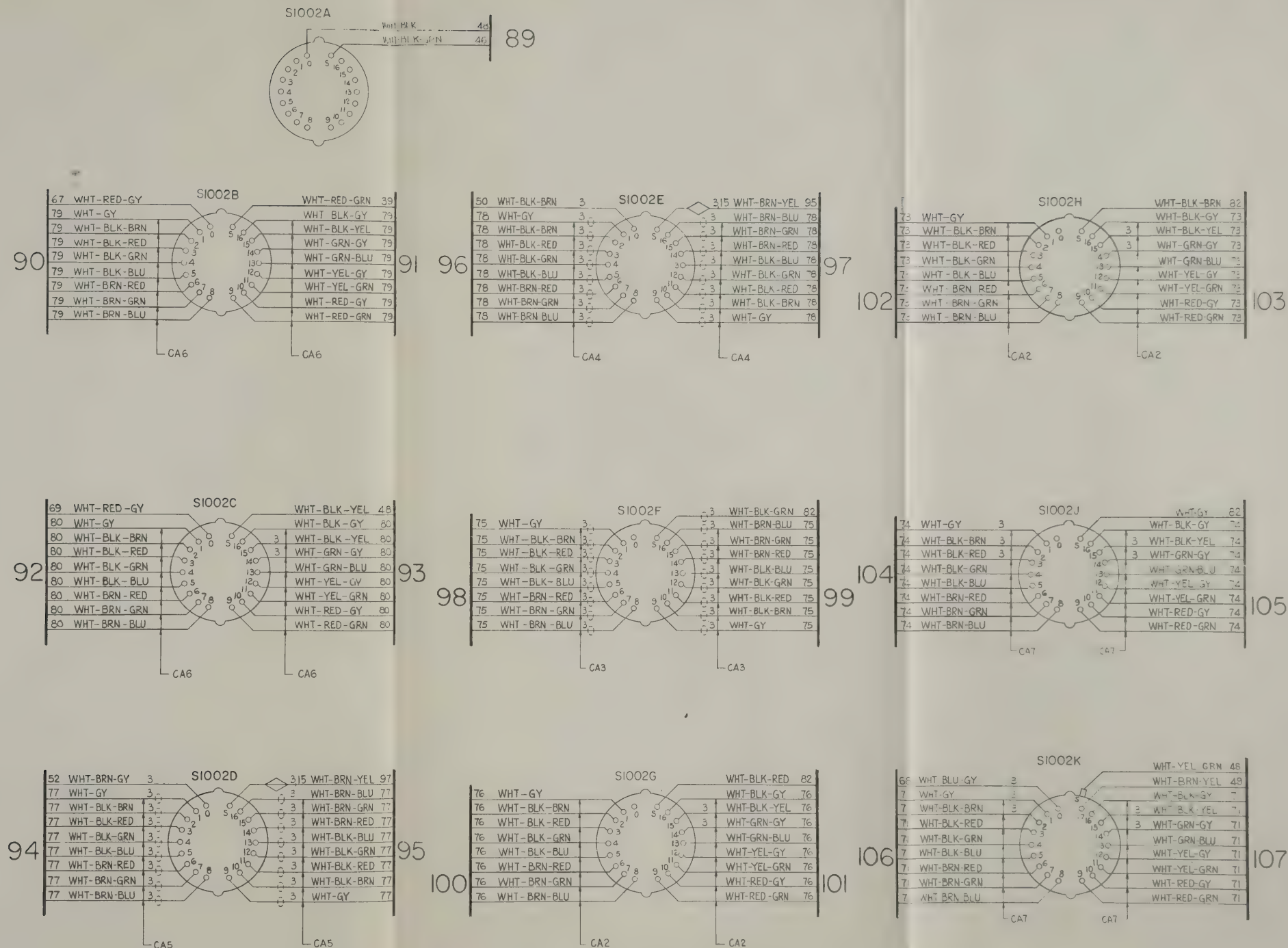
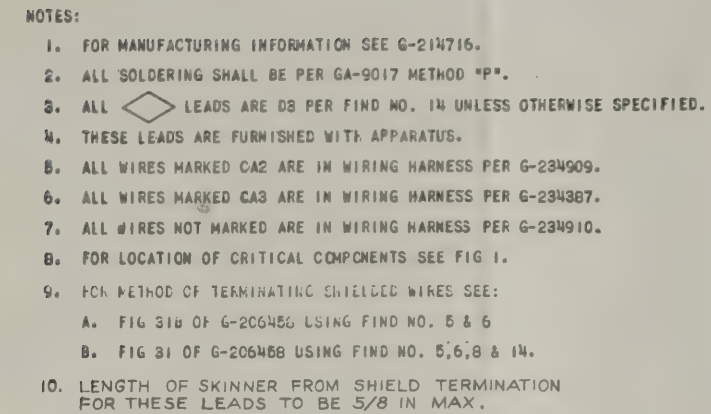


Figure 5-39. Test Set Subassembly Wiring Diagram (G-234013, Sheet 4 of 4 - Rev. E)



✓		GA-51229 E GA-9037	WHT-BRN-ORN WHT-BRN-GRN WHT WHT-BLK-ORN WHT-BLK-RED WHT-BRN-GRN WHT-BRN-ORN WHT-RED WHT-BLK WHT-YEL-GRN WHT-ORN-BLU WHT-GY WHT-ORN-GY WHT-RED-ORN WHT-YEL-BLU WHT-BLU-GY WHT-ORN-YEL WHT-RED-GRN WHT-BLU WHT-BRN WHT-YEL WHT-BRN-YEL WHT-GRN WHT-ORN WHT-YEL-GY WHT WHT-GY	SHIELDED					
✓		GA-51229	WIRE ELECTRICAL 22GA STRANDED						
✓		G-205641-20	WIRE, ELECTRICAL						
✓		BA-10236	INSULATION SLEEVING ELEC.						
REQ	CUSTOMER'S DESIGNATION	DESIGNATION FOR W E USE	DESCRIPTION	SET DESIG	NOTE	FIND NO.			
LIST OF MATERIAL									

Revised 15 March 1957

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

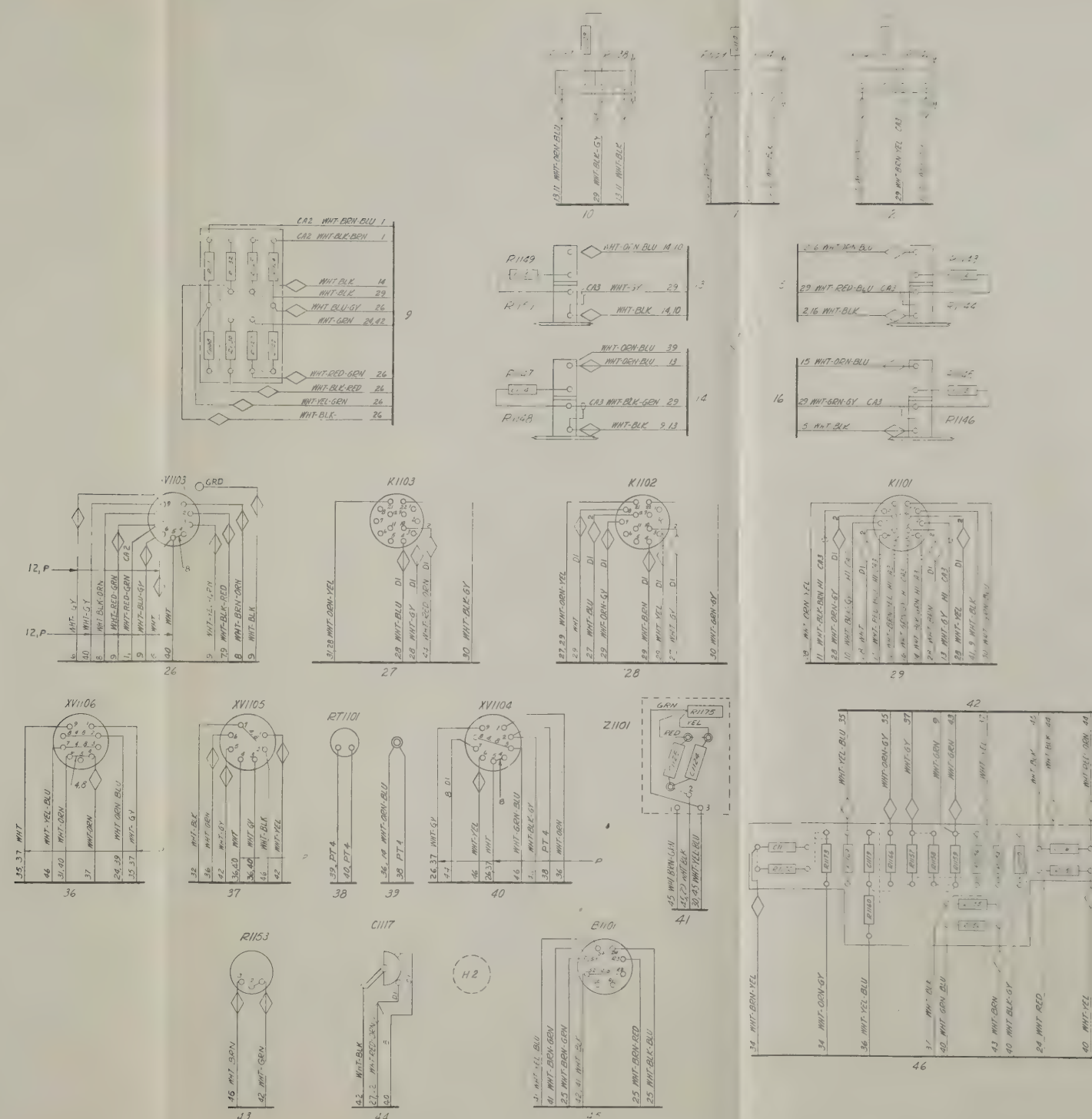
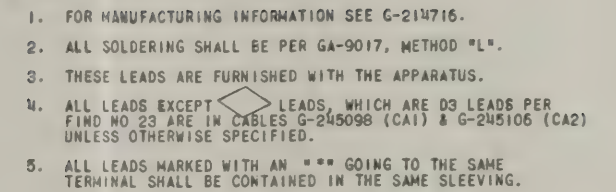


Figure 5-40. Oscillator Amplifier Wiring Diagram (G-234544, Sheet 2 of 2 - Rev. E)



✓		GA-51229	WHT-ORN-YEL WHT-YEL WHT-BLK-GRN WHT-GRN-GRN WHT-BLK WHT-ORN WHT-RED WHT-GRN	22 GA	WIRE ELECTRICAL STRANDED			23
								22
								21
✓		G-20584	-16	WIRE, COPPER				20
✓			-20					19
								18
								16
✓		BA-10236	311 310 307 170 309 308 305	INSULATION SLEEVING ELECTRICAL				15
								14
								13
								12
								11
								10
								9
								8
								7
								6
								5
								4
								3
								2
								1
REQ	CUSTOMER'S DESIGNATION	DESIGNATION FOR W E USE	DESCRIPTION			REF DESIG	NOTE	PWD NO.
A-COML PART-SEE SPEC CONTROL DWS BEFORE ORDERING B-DENOTES SUB-ASSEMBLY V-DENOTES QUANTITY AS REQUIRED D-DENOTES PARTS TO BE SHIPPED LOOSE								
LIST OF MATERIAL								

Revised 15 March 1957

NOTES:

- 1. FOR MANUFACTURING INFORMATION SEE G-214716.
- 2. ALL SOLDERING SHALL BE PER GA-9017 METHOD "P".
- 3. ALL LEADS ARE IN WIRING HARNESS G-234834 UNLESS OTHERWISE SPECIFIED.
- 4. ALL TERMINALS ON P2101 THRU P2107 WITH ONE LEAD SHALL BE EQUIPPED WITH SLEEVING PER FIND NO. 2.
- 5. ALL TERMINALS ON J2101 WITH ONE LEAD SHALL BE EQUIPPED WITH SLEEVING PER FIND NO. 4.
- 6. ALL STRAPS PER FIND NO. 8 UNLESS OTHERWISE SPECIFIED.

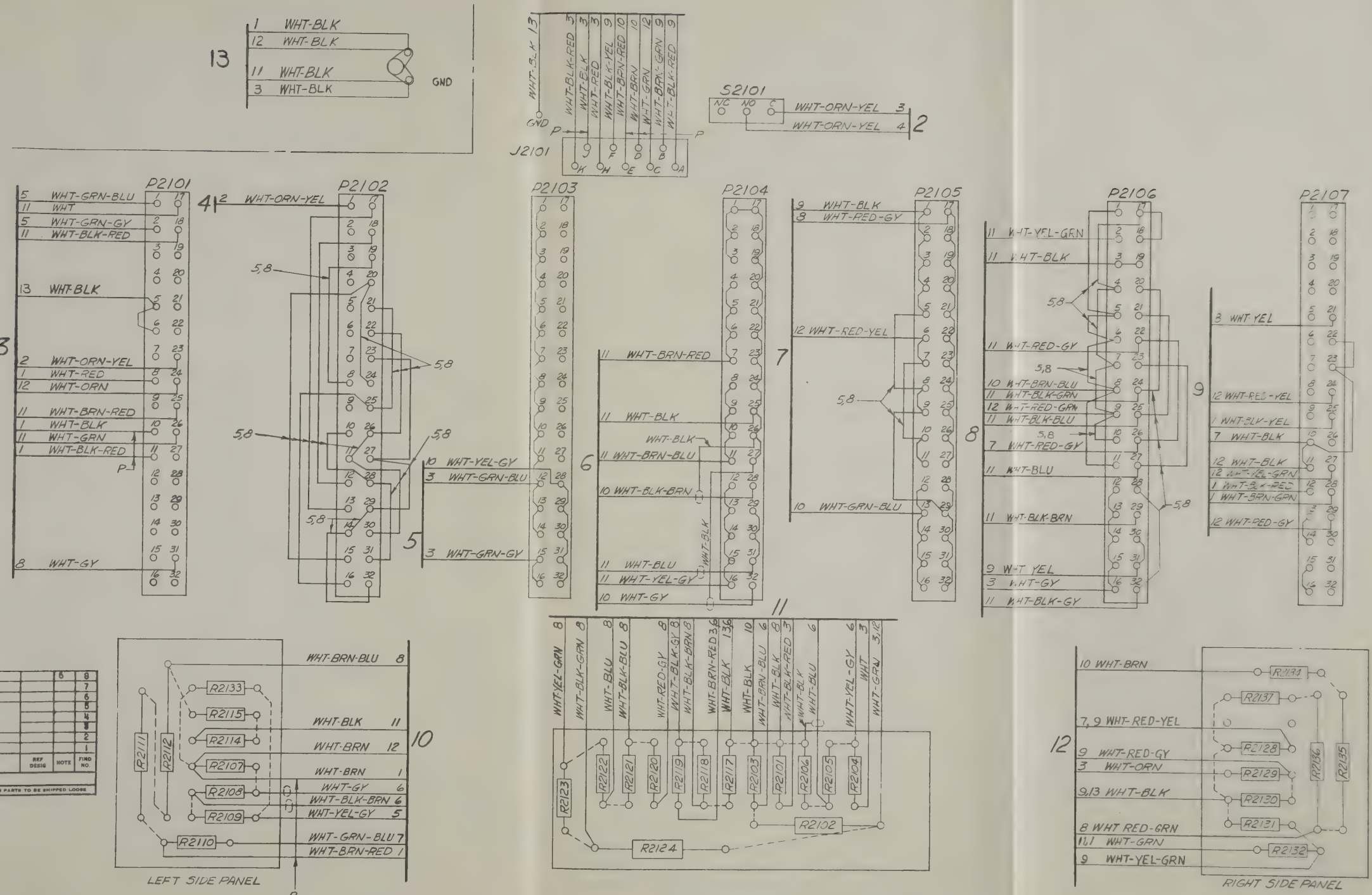


Figure 5-42. GS-17461 Test Adapter Wiring Diagram (G-234614, Rev. H)

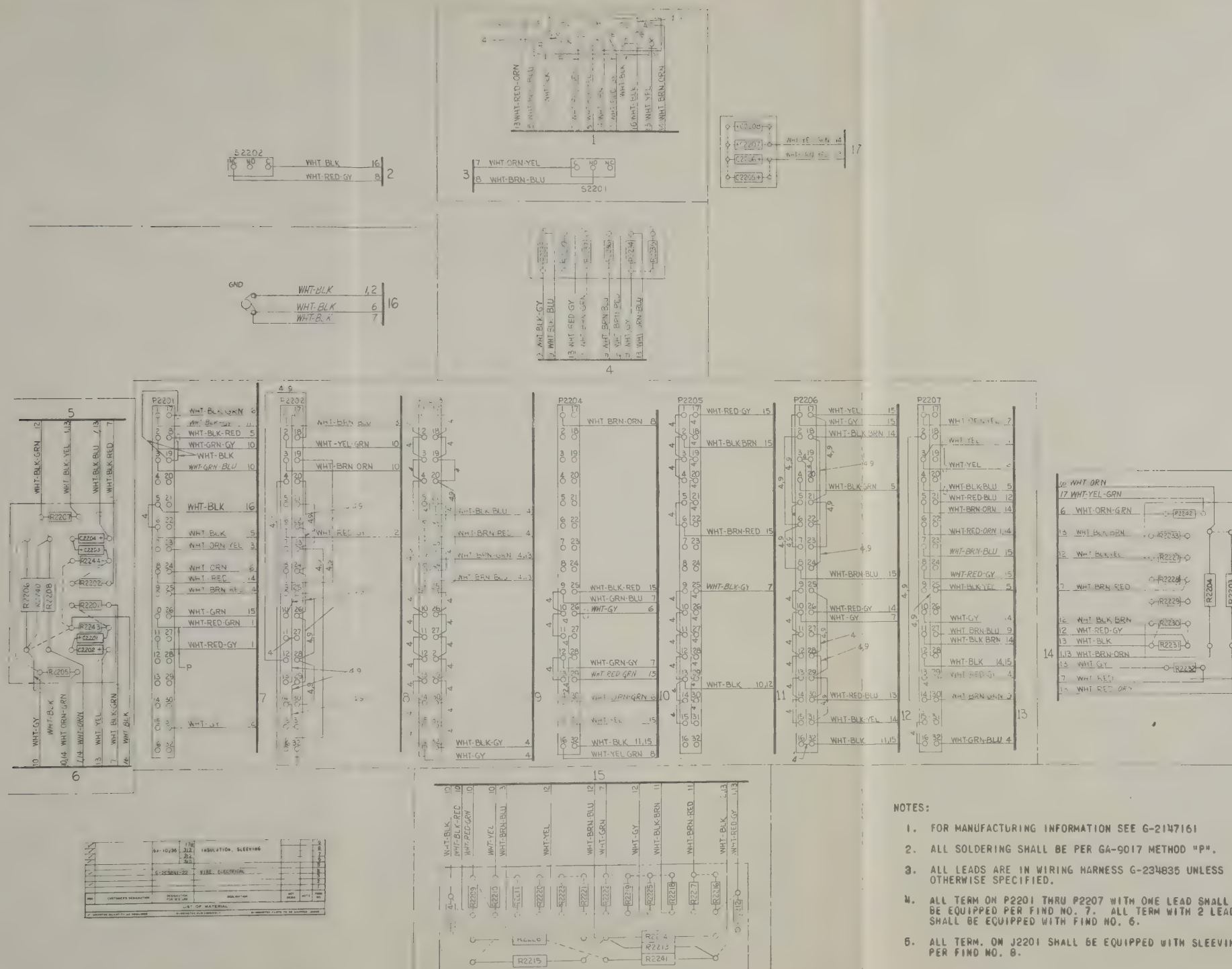
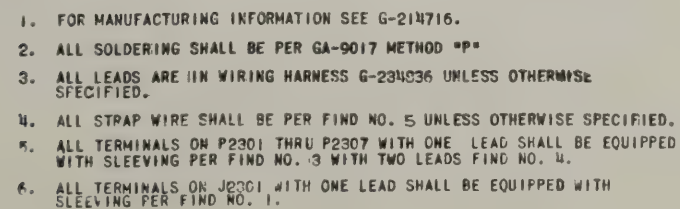


Figure 5-43. GS-17462 Test Adapter Wiring Diagram (G-234615, Rev. E)



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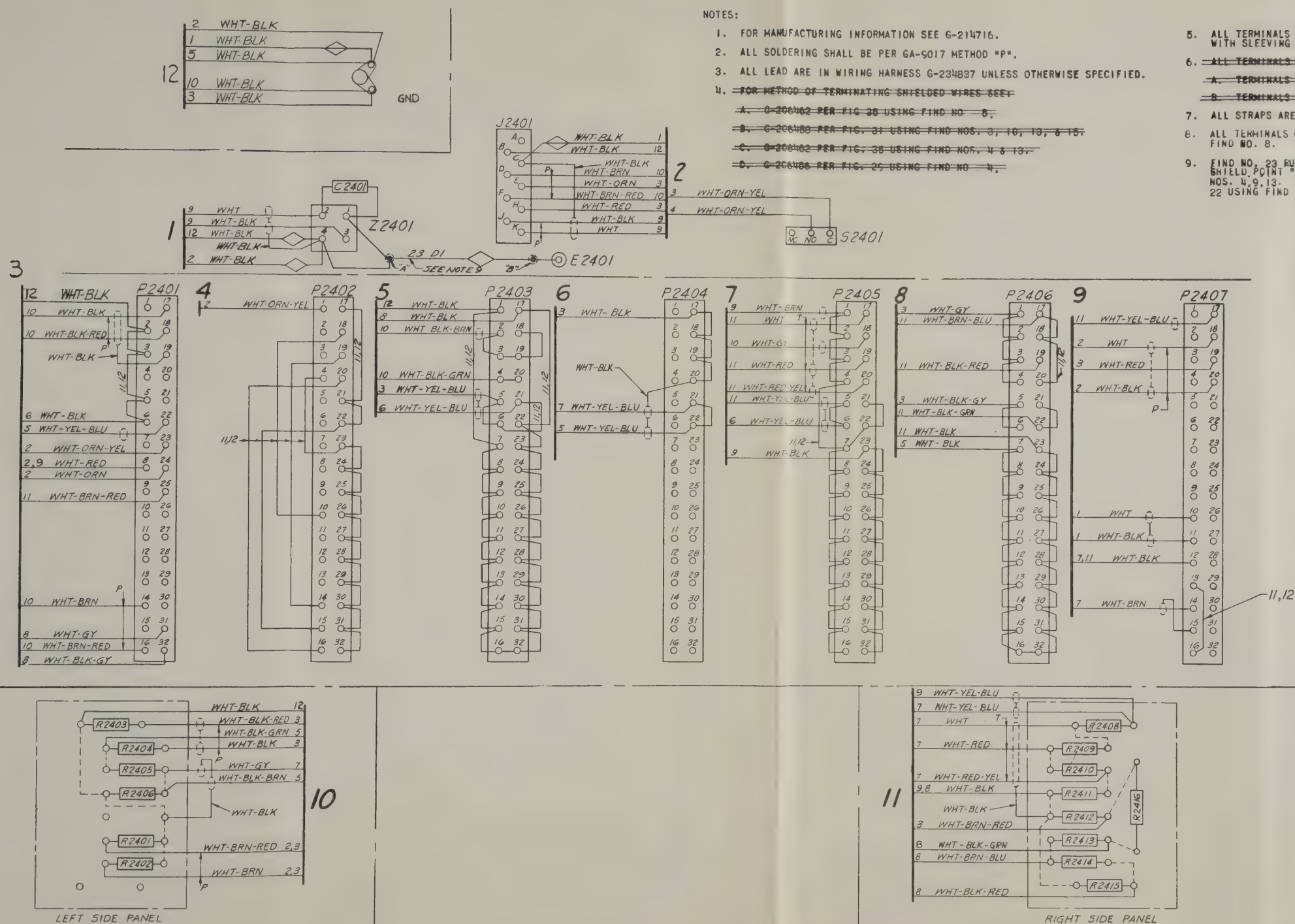


Figure 5-45. GS-17464 Test Adapter Wiring Diagram (G-234617, Rev. F)

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

NOTES:

1. FOR MANUFACTURING INFORMATION SEE G-241716.
2. ALL SOLDERING SHALL BE PER GA-9017 METHOD "P".
3. ALL LEADS ARE IN WIRING HARNESS G-234838 UNLESS OTHERWISE SPECIFIED.
4. ALL TERMINALS ON P2501 THRU P2507 WITH ONE LEAD SHALL BE EQUIPPED WITH SLEEVING PER FIND NO. 6. ALL TERMINALS ON P2501 THRU P2507 WITH TWO LEADS SHALL BE EQUIPPED WITH SLEEVING PER FIND NO. 5.
5. ALL TERMINALS ON J2501 WITH ONE LEAD SHALL BE EQUIPPED WITH SLEEVING PER FIND NO. 7.
6. ALL TERMINALS ON K2501 & K2502 SHALL BE EQUIPPED WITH SLEEVING AS FOLLOWS:
 - A. TERMINALS WITH ONE LEAD FIND NO. 6
 - B. TERMINALS WITH TWO LEADS FIND NO. 5
7. ALL STRAPS ARE PER FIND NO. 17 UNLESS OTHERWISE SPECIFIED.

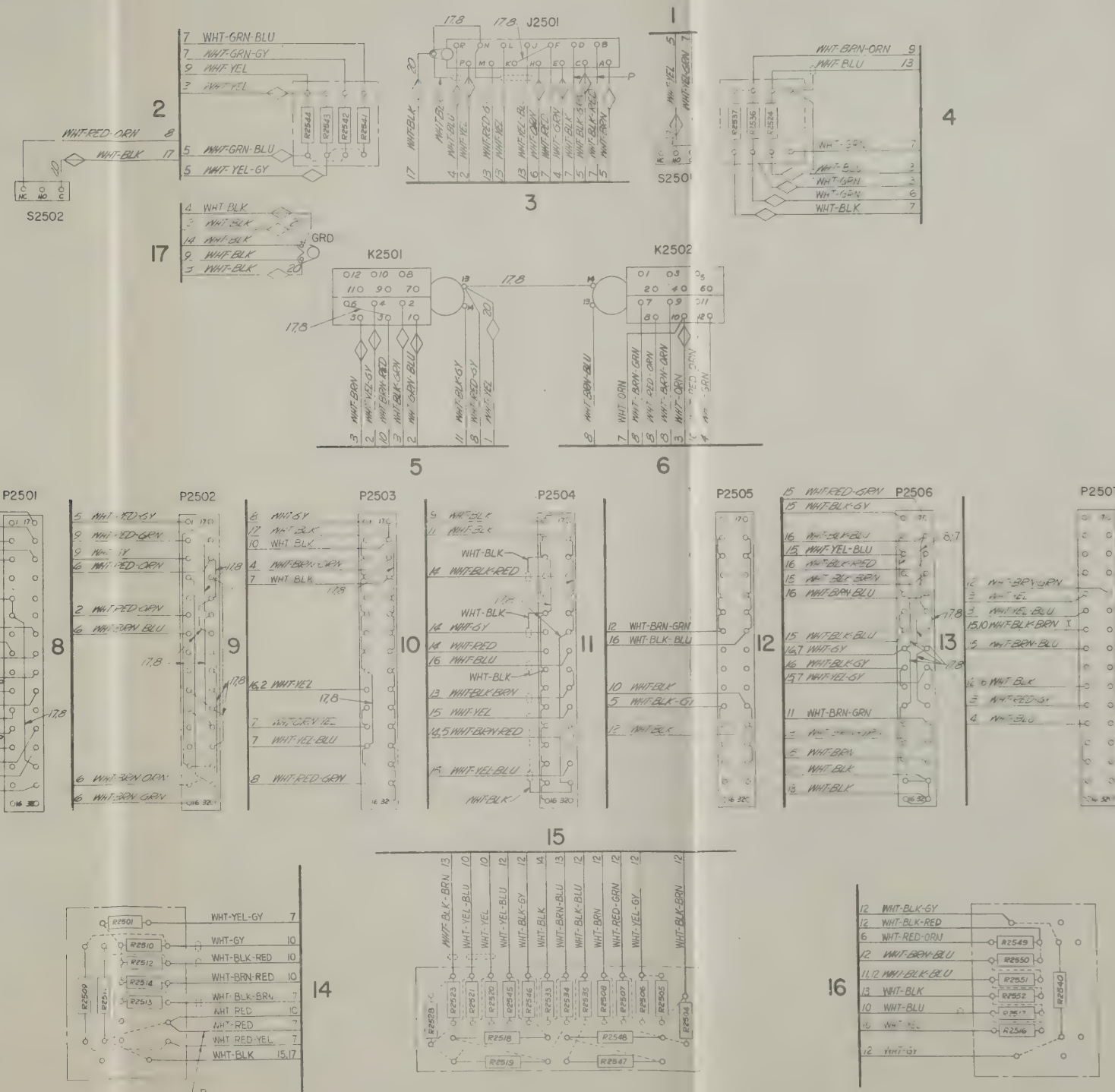


Figure 5-46. GS-17465 Test Adapter Wiring Diagram (G-234619, Rev. G)

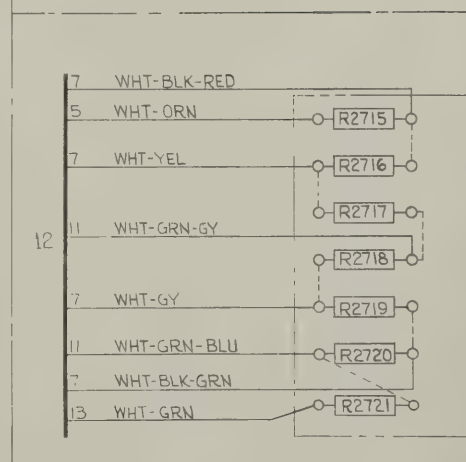
GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT



1. FOR MANUFACTURING INFORMATION SEE G-214716.
2. ALL SOLDERING SHALL BE PER GA-9017 METHOD "P".
3. ALL LEADS ARE IN WIRING HARNESS G-234839 UNLESS OTHERWISE SPECIFIED.
4. ALL TERMINALS ON P2601 THRU P2607 WITH ONE LEAD SHALL BE EQUIPPED WITH SLEEVING PER FIND NO. 3.
5. ALL TERMINALS ON J2601 WITH ONE LEAD SHALL BE EQUIPPED WITH SLEEVING PER FIND NO. 4.
6. ALL STRAPS ARE PER FIND NO. 8 UNLESS OTHERWISE SPECIFIED.

✓		G-204941-20	WIRE, ELECTRICAL		6	8
✓		BA-10236	170 313 312 INSULATION, SLEEVING ELECTRICAL			8 7 6 5 4 3 2 1
REQ	CUSTOMER'S DESIGNATION	DESIGNATION FOR W E USE	DESCRIPTION	REF DESIG	NOTE	FIND NO
LIST OF MATERIAL						
✓-DENOTES QUANTITY AS REQUIRED		B-DENOTES SUB-ASSEMBLY		D-DENOTES PARTS TO BE SHIPPED LOOSE		

Figure 5-47. GS-17466 Test Adapter Wiring Diagram (G-234620, Rev. E)



1. FOR MANUFACTURING INFORMATION SEE G-214716.
2. ALL SOLDERING SHALL BE PER GA-9017 METHOD "P".
3. ALL LEADS ARE IN WIRING HARNESS G-234840 UNLESS OTHERWISE SPECIFIED.
4. SLL STRAPS PER FIND NO. 8 UNLESS OTHERWISE SPECIFIED.
5. ALL TERMINALS ON P2701 THRU P2707 WITH ONE LEAD SHALL BE EQUIPPED WITH SLEEVING PER FIND NO. 9.
6. ALL TERMINALS ON J2701 WITH ONE LEAD SHALL BE EQUIPPED WITH SLEEVING PER FIND NO. 8.
7. ALL TERMINALS ON P2701 THRU P2707 WITH TWO LEADS SHALL BE EQUIPPED WITH SLEEVING PER FIND NO. 11.

✓		BA-10236	310 178 313 312	INSULATION SLEEVING ELECTRICAL				
✓		G-205841-22		WIRE ELECTRICAL				
✗		BA-10236-178		INSULATION SLEEVING				
REQ	CUSTOMER'S DESIGNATION	DESIGNATION FOR W & E USE		DESCRIPTION		REF DESIG	NOTE	FILE NO.

LIST OF MATERIAL

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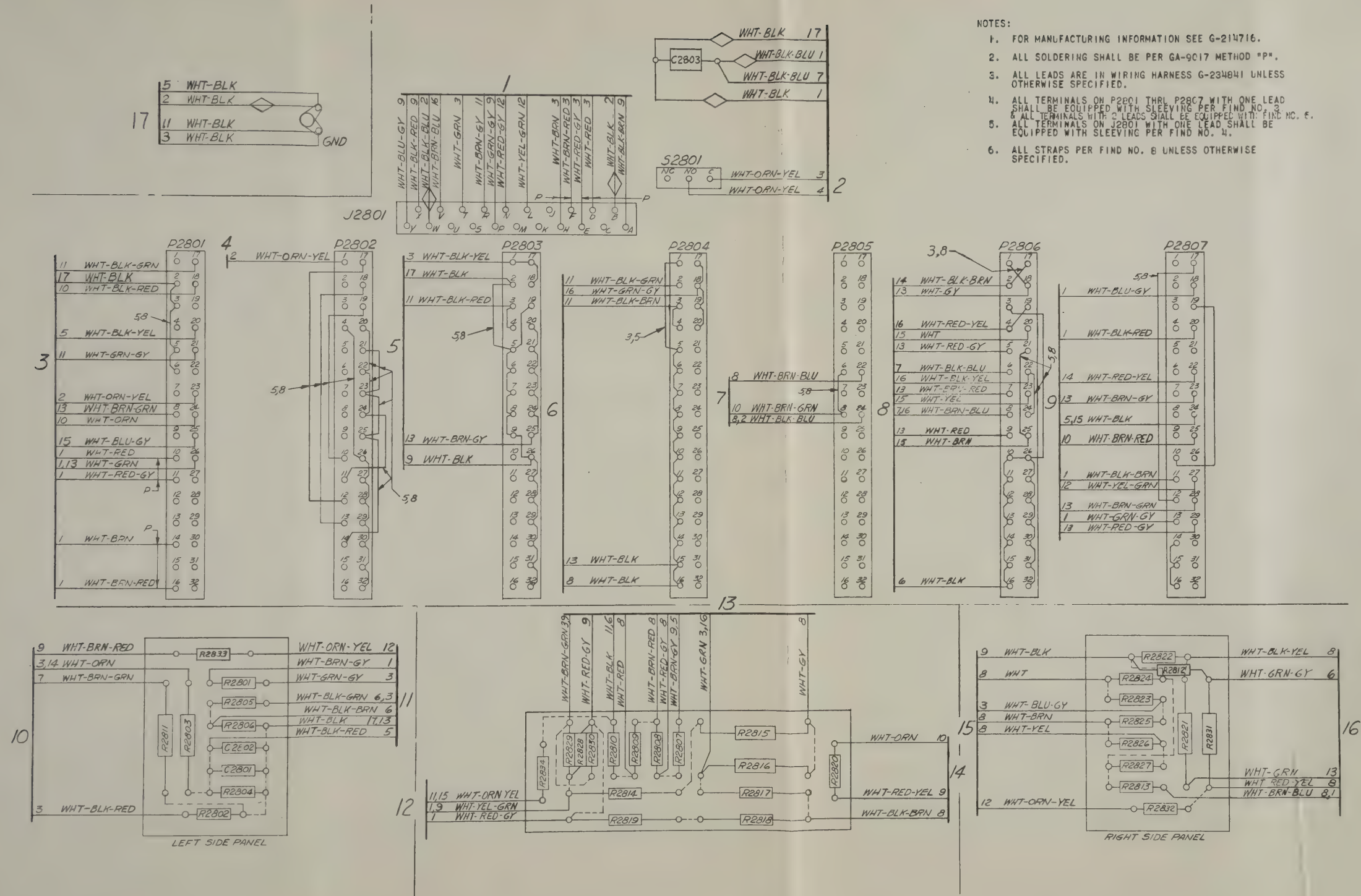
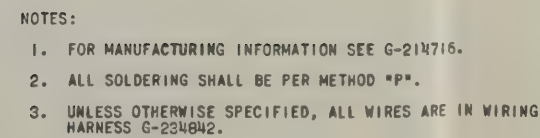


Figure 5-50



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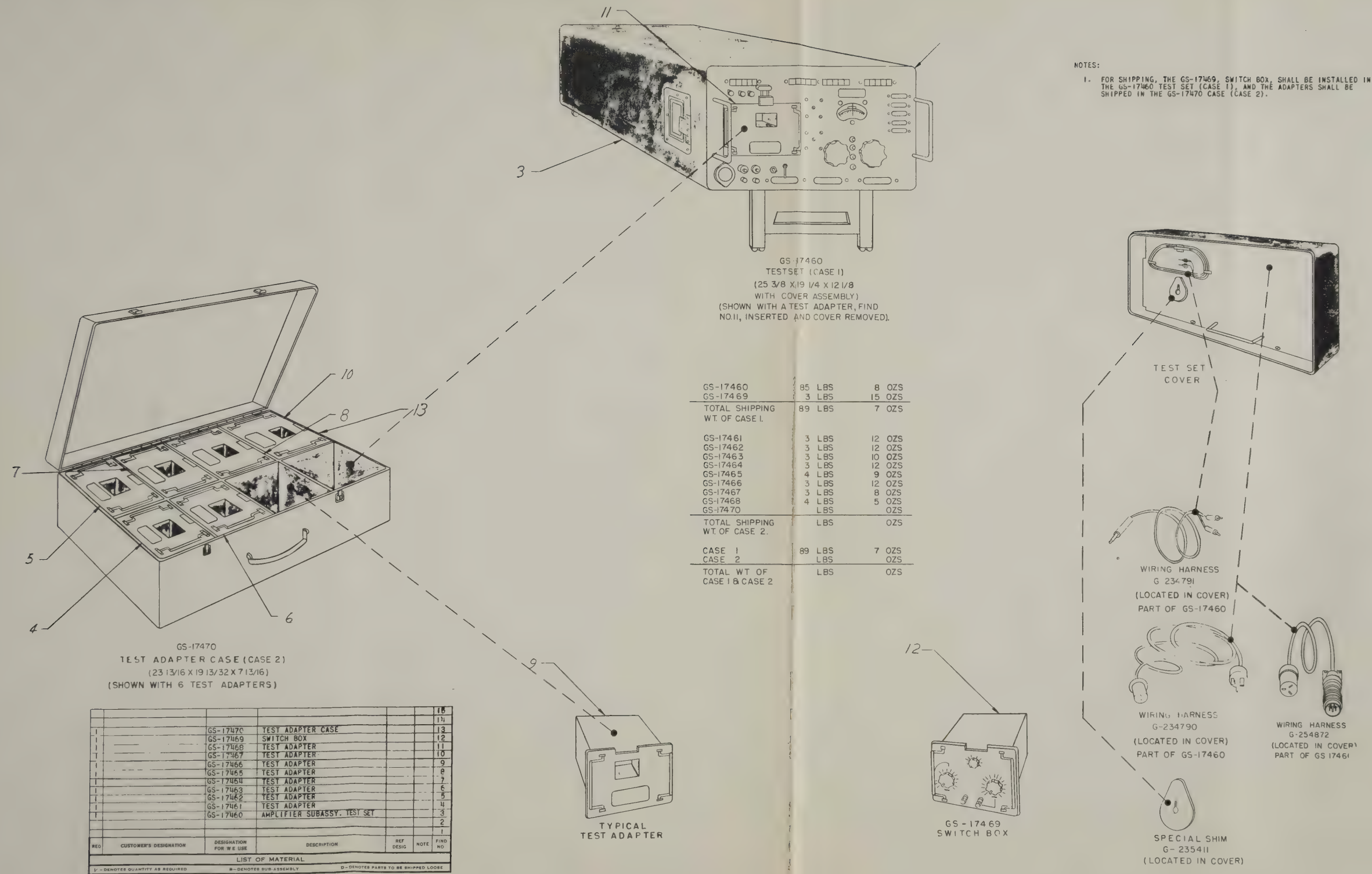


Figure 5-51. GS-16744 Amplifier Subassembly Test Equipment (GS-16744, Rev. A)

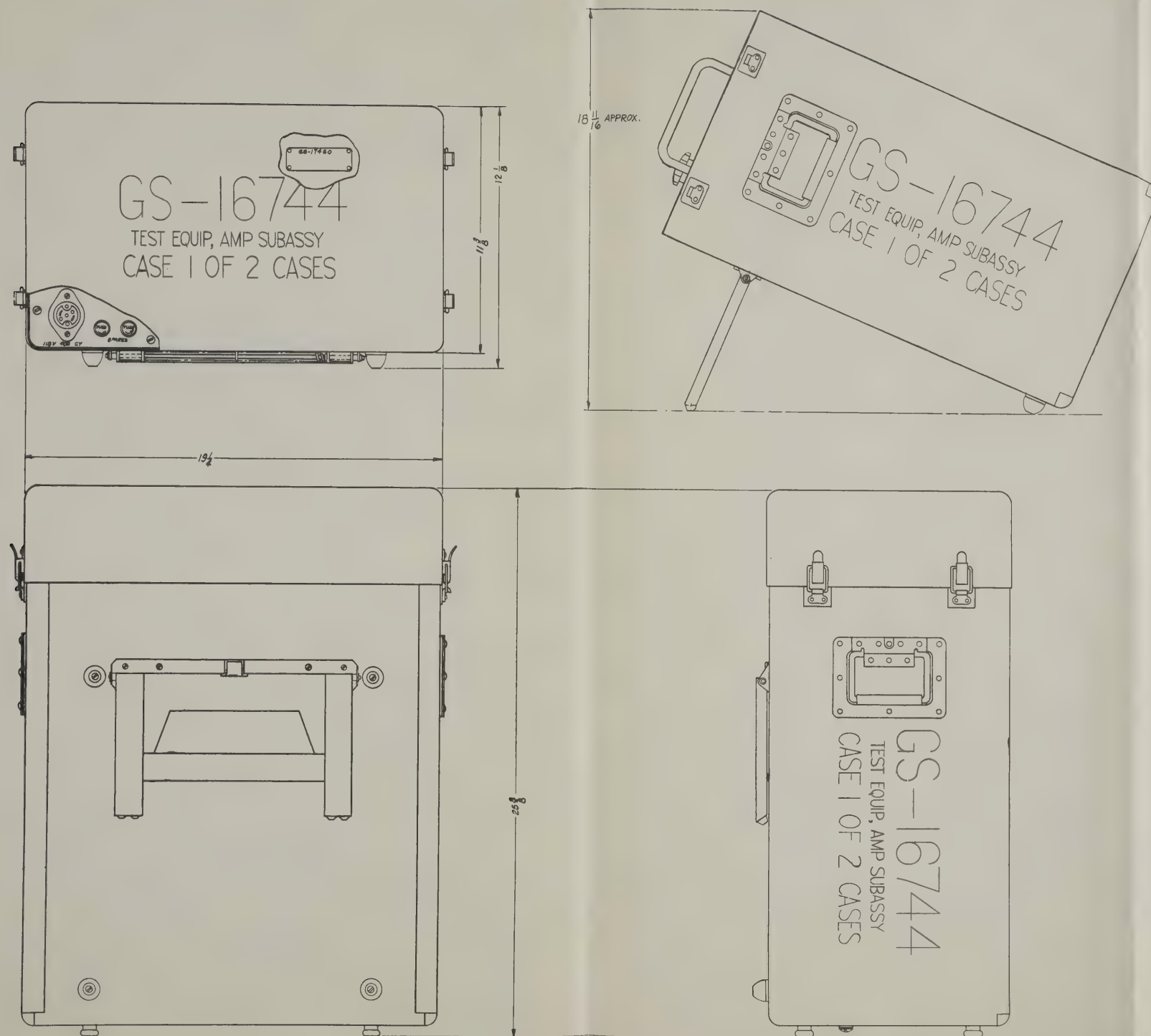


Figure 5-52. GS-17460 Amplifier Subassembly Test Set Outline Drawing
(GS-17460, Rev. B)

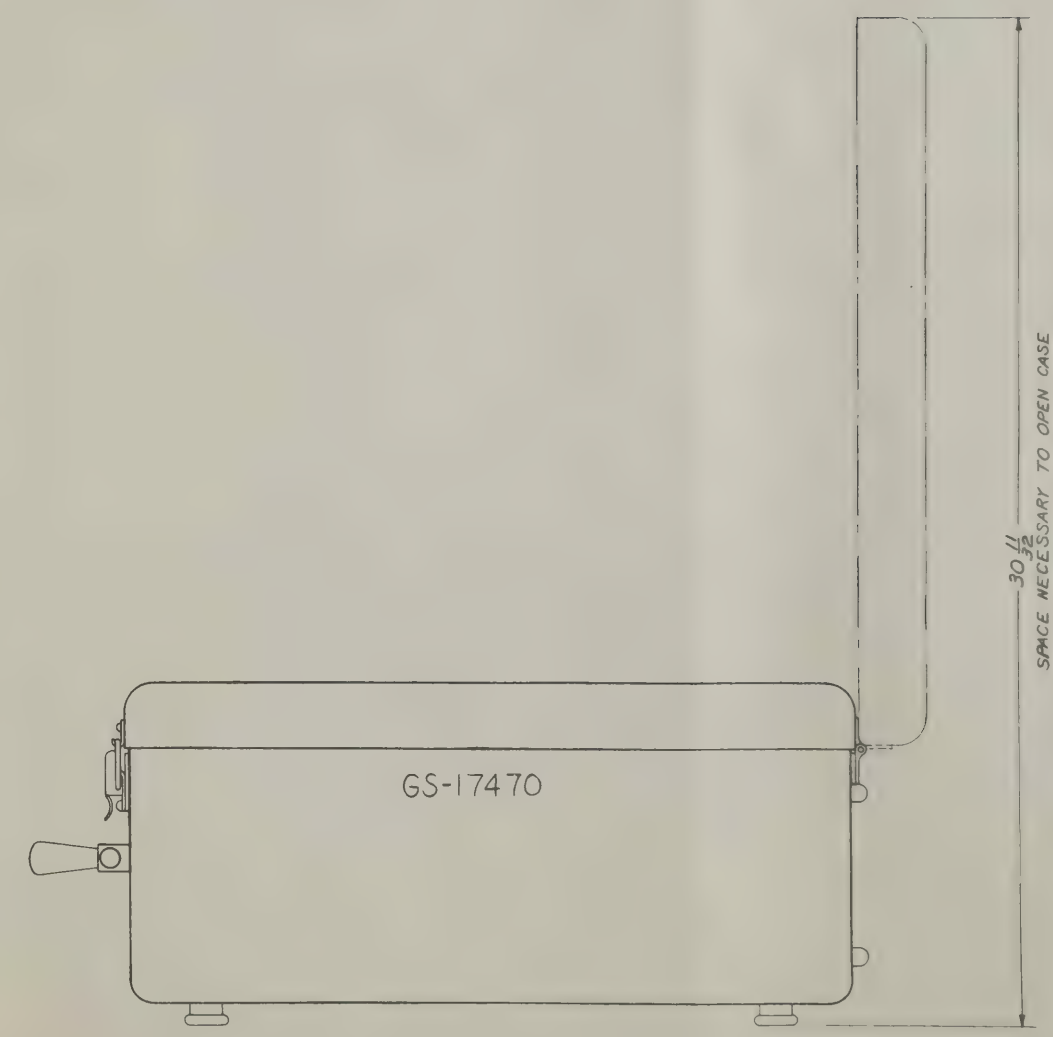
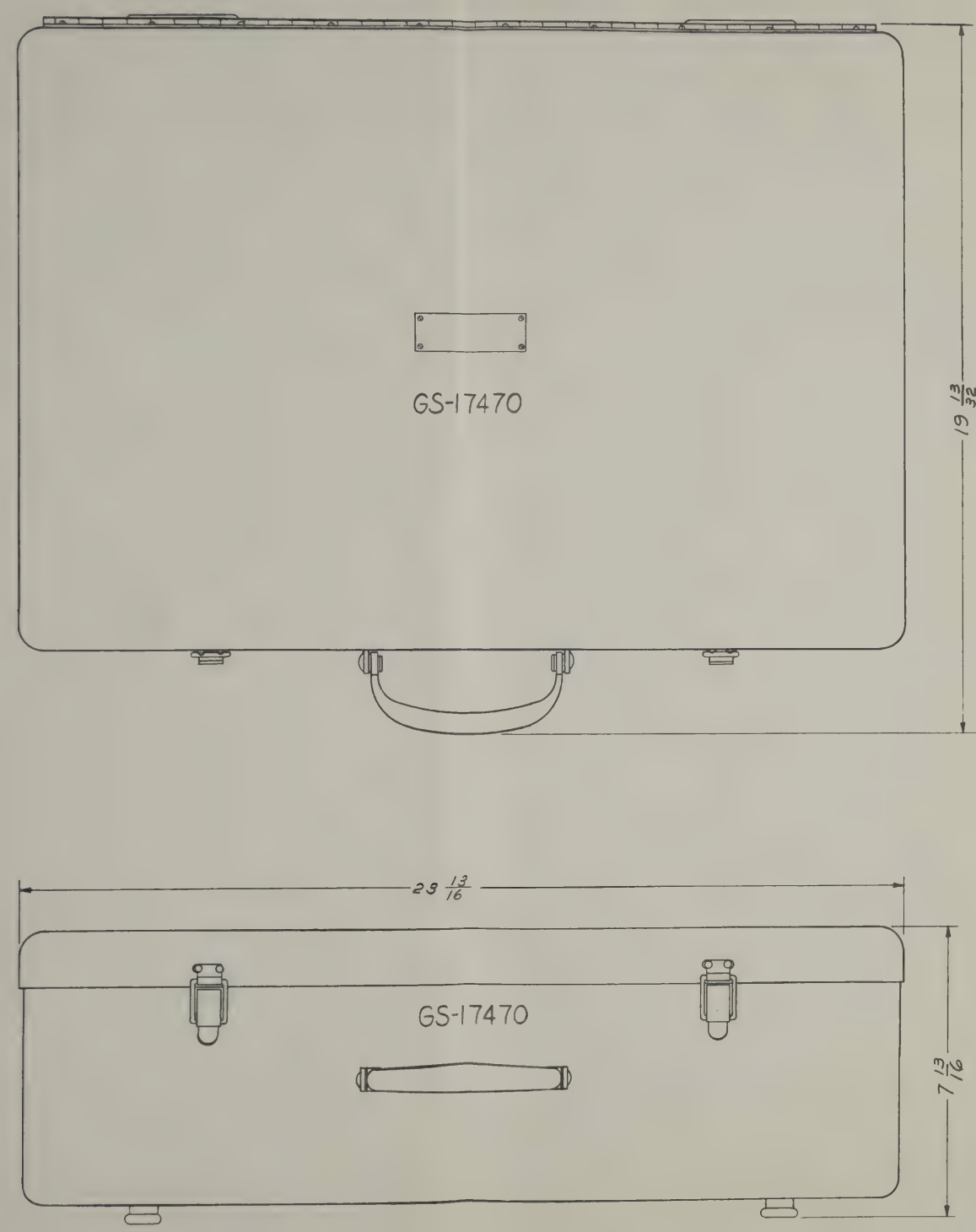


Figure 5-53. GS-17470 Test Adapter Case Outline Drawing (GS-17470, Issue 1)

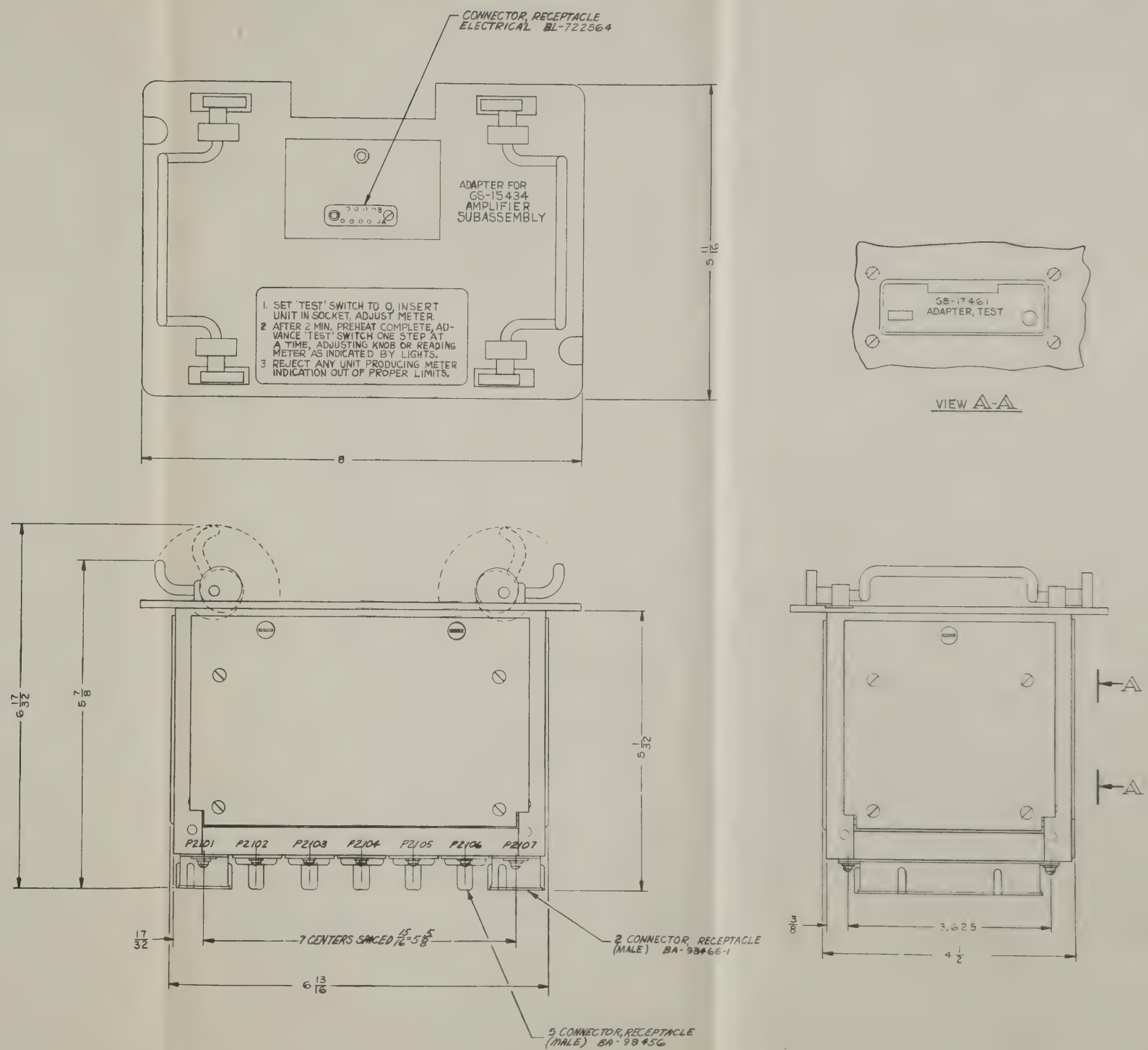


Figure 5-54. GS-17461 Test Adapter Outline Drawing (GS-17461, Rev. A)

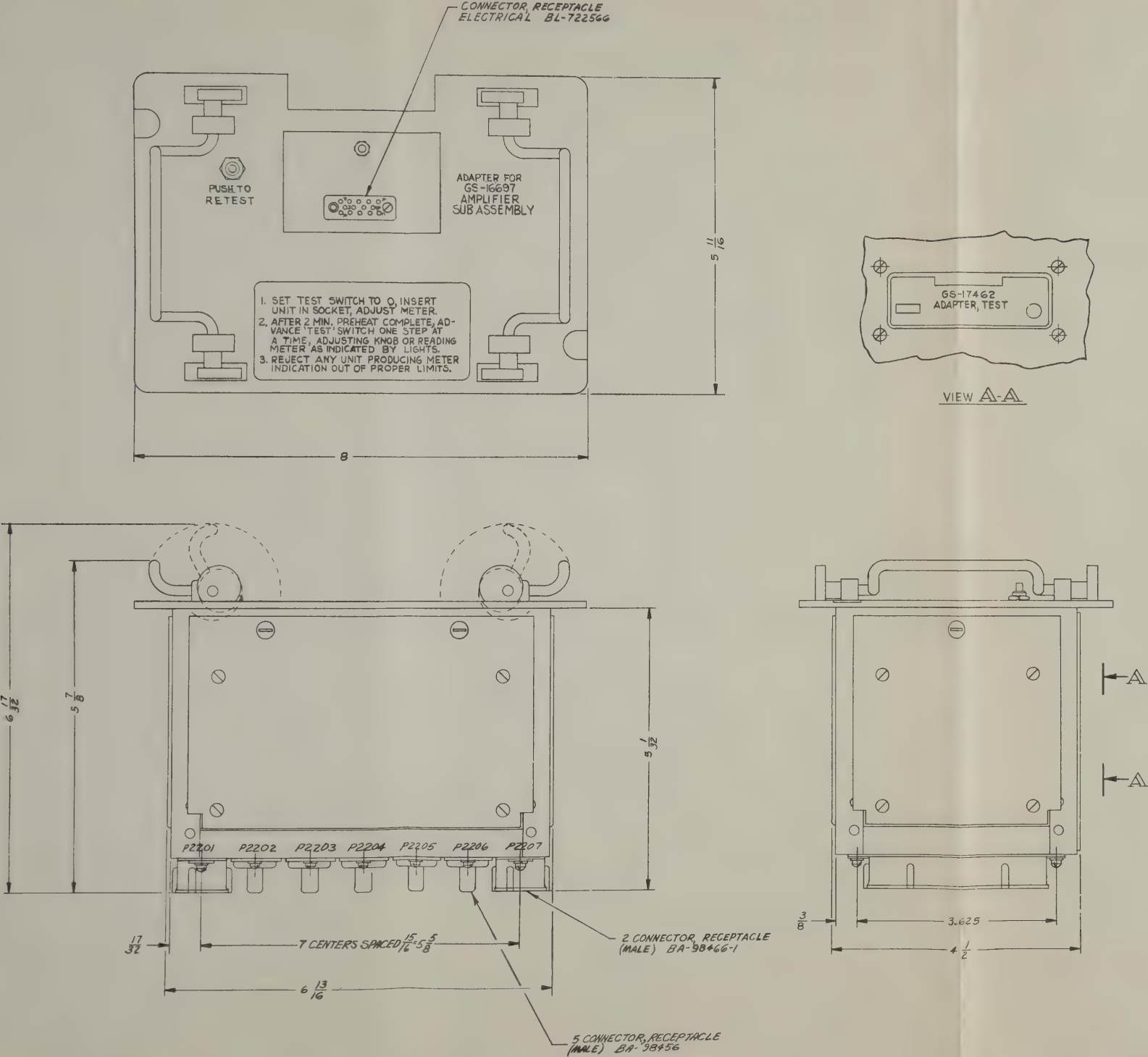


Figure 5-55. GS-17462 Test Adapter Outline Drawing (GS-17462, Rev. A)

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

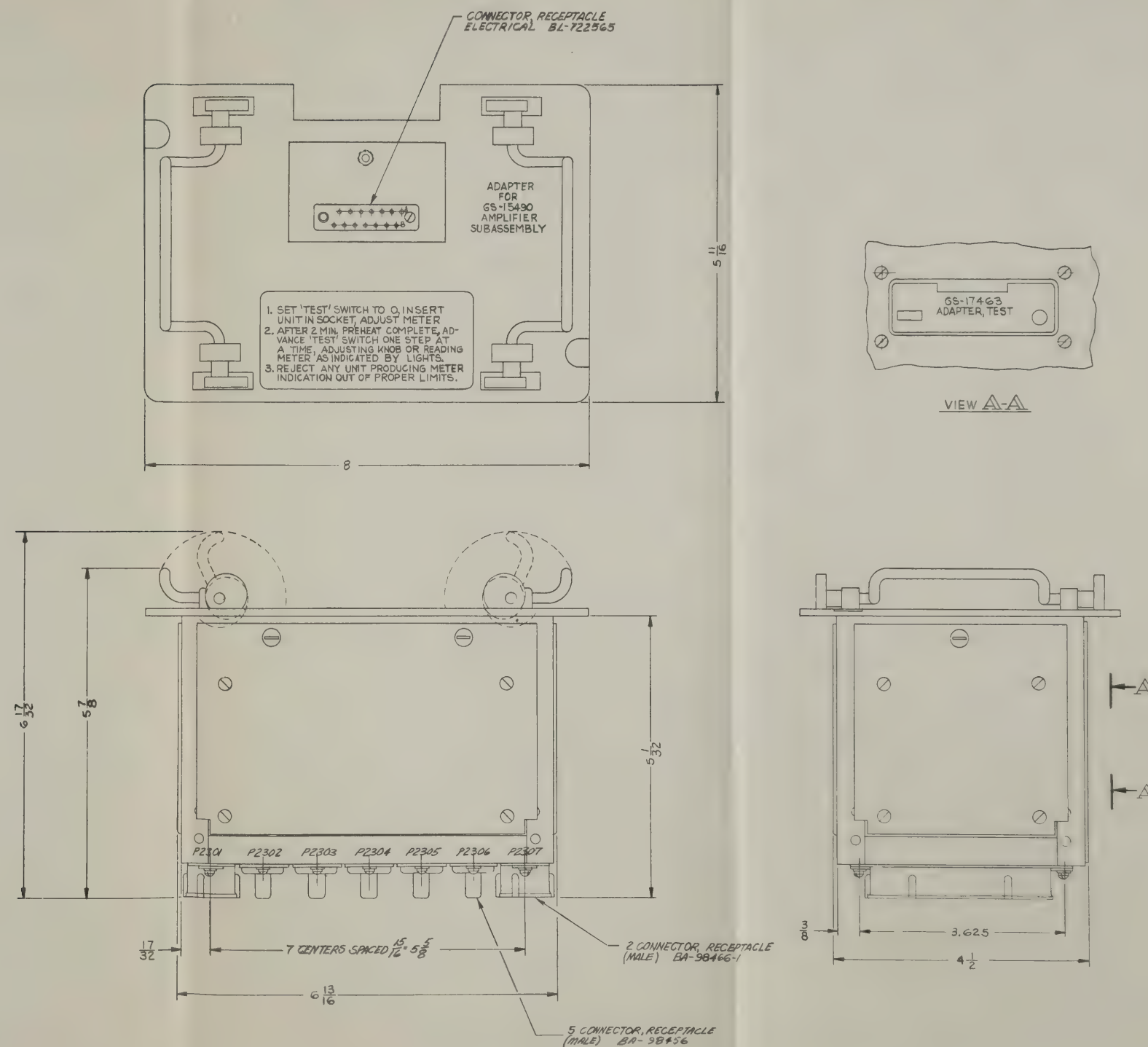


Figure 5-56. GS-17463 Test Adapter Outline Drawing (GS-17463, Rev. A)

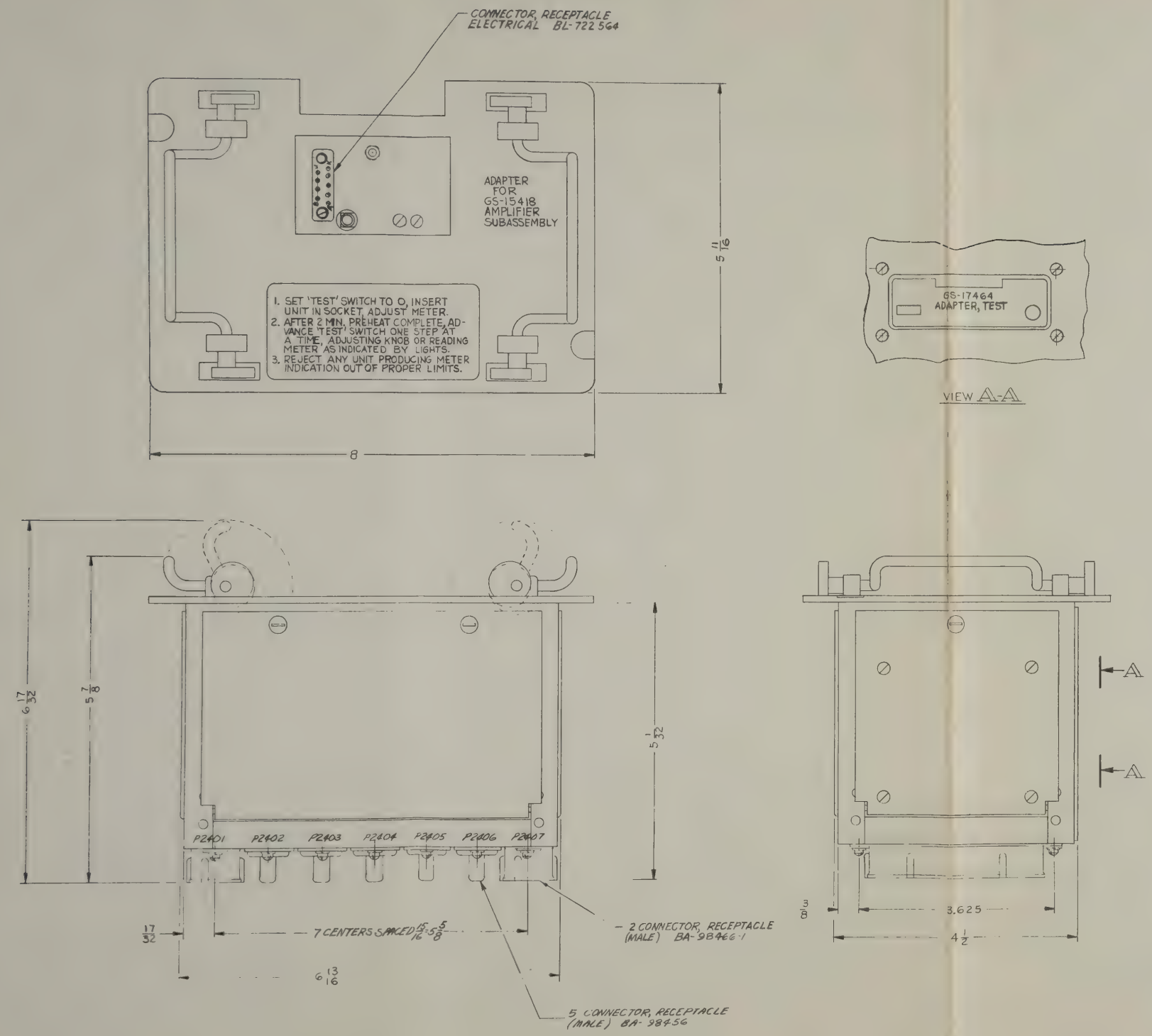
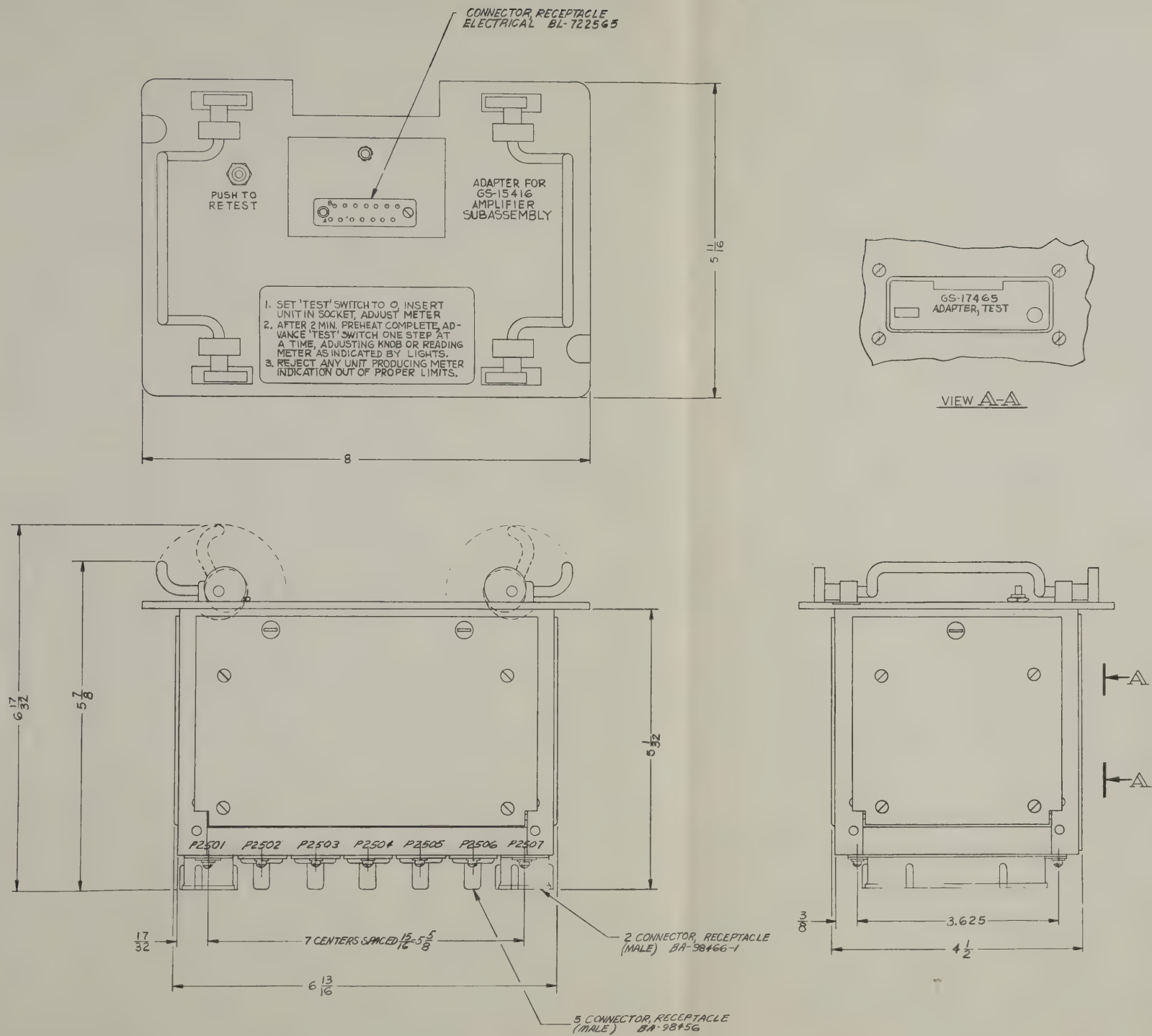
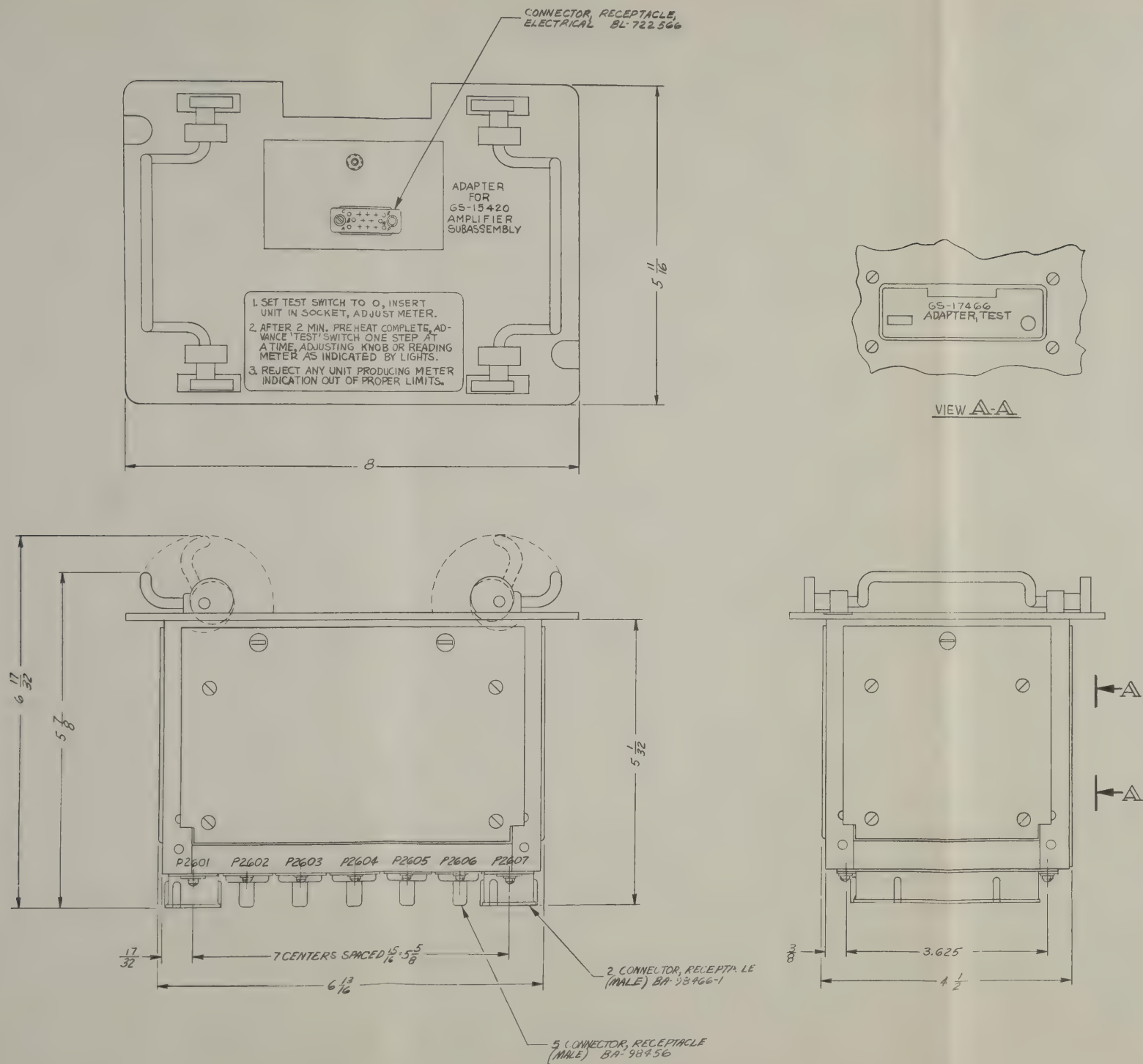


Figure 5-57. GS-17464 Test Adapter Outline Drawing (GS-17464, Rev. A)



DSMA	DESCRIPTION	DP-3563
(1)	ADAPTER, TEST - (2) connects to item to be tested by integral connector - (3) adjustment data (3.a) no tuning devices (3.b) item is not switch adjusted (4) frequency range - 35/100/400 cycles, 0-18 volts (5) operating power requirements (5.a) AC (5.a.1) 6.3V, .3V (5.a.2) 400 (5.a.3) single phase (5.b) DC (5.b.1) +300V, +150V, -150V, +.5V, +25V (5.c) none (6) aluminum alloy case (7) enamel finish (8) over-all dimensions (8.a) 8 in. long (8.b) 5-11/16 in. wide (8.c) 5-2/8 in. deep with handles in closed position (9) no special features (10) N/A (11) the manufacturer's data (11.a) Western Electric Co., Inc. (11.b) New York, N. Y. (11.c) code 64959 (11.d) part/spec GS-17465 (11.e) N/A (F) designed for specific use (F.1) USAF (F.2) type K5 test equipment (F.3) type K5 test equipment.	

Figure 5-58. GS-17465 Test Adapter Outline Drawing (GS-17465, Rev. A)



DSMA	DESCRIPTION	DP-3563
(1)	ADAPTER, TEST (2) connects to item to be tested by integral connector (3) adjustment data (3.a) no tuning devices (3.b) item is not switch adjusted (4) frequency range -0 (5) operating power requirements (5.a) AC (5.a.1) 6.3V, 3V (5.a.2) 400 cycle (5.a.3) single phase (5.b) DC (5.b.1) +28V, +150V, +5V, +300V, -150V (5.c) none (6) aluminum alloy case (7) enamel finish (8) over-all dimensions (8.a) 8 in. long (8.b) 5-11/16 in. wide (8.c) 5-7/8 in. deep w/handles in closed position (9) no special features (10) N/A (12) the manufacturer's data (12.a) Western Electric Co., Inc. (12.b) New York, N. Y. (12.c) code 64959 (12.d) part/spec GS-12466 (F) designed for specific use (F.1) USAF (F.2) type K5 test equipment (F.3) type K5 test equipment.	

Figure 5-59. GS-17466 Test Adapter Outline Drawing (GS-17466, Rev. A)

Figure 5-60

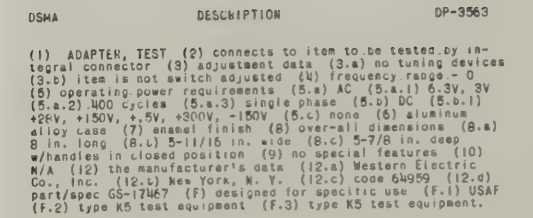
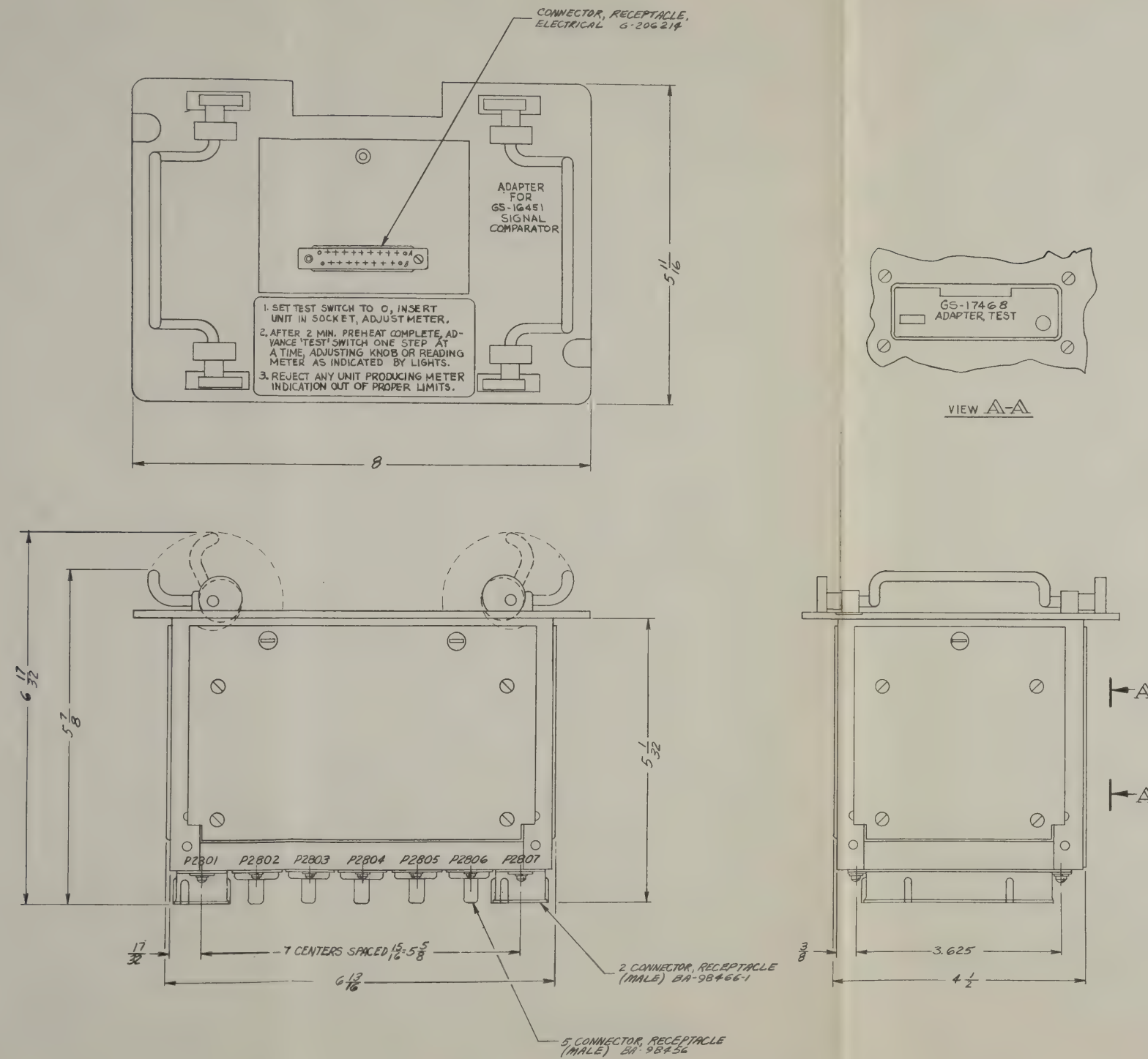


Figure 5-60. GS-17467 Test Adapter Outline Drawing (GS-17467, Rev. A)



DSMA	DESCRIPTION	CP-3563
(1)	ADAPTER, TEST (2) connects to item to be tested by integral connector (3) adjustment data (3.a) no tuning devices (3.b) item is not switch adjusted (4) frequency range -350 cycles, 0-18 volts (5) operating power requirements (5.a) AC (5.a.1) 6.3V, 3V (5.a.2) 400 cycle (5.a.3) single phase (5.b) DC (5.b.1) +28V, +150V, +5V, -150V (5.c) none (6) aluminum alloy case (7) enamel finish (8) over-all dimensions (8.a) 8 in. long (8.b) 5-11/16 in. wide (8.c) 5-7/8 in. deep w/handles in closed position (9) no special features (10) N/A (12) the manufacturer's data (12.a) Western Electric Co., Inc. (12.b) New York, N. Y. (12.c) code 64959 (12.d) part/spec GS-17468 (F) designed for specific use (F.1) USAF (F.2) type K5 test equipment (F.3) type K5 test equipment.	

Figure 5-61. GS-17468 Test Adapter Outline Drawing (GS-17468, Rev. A)

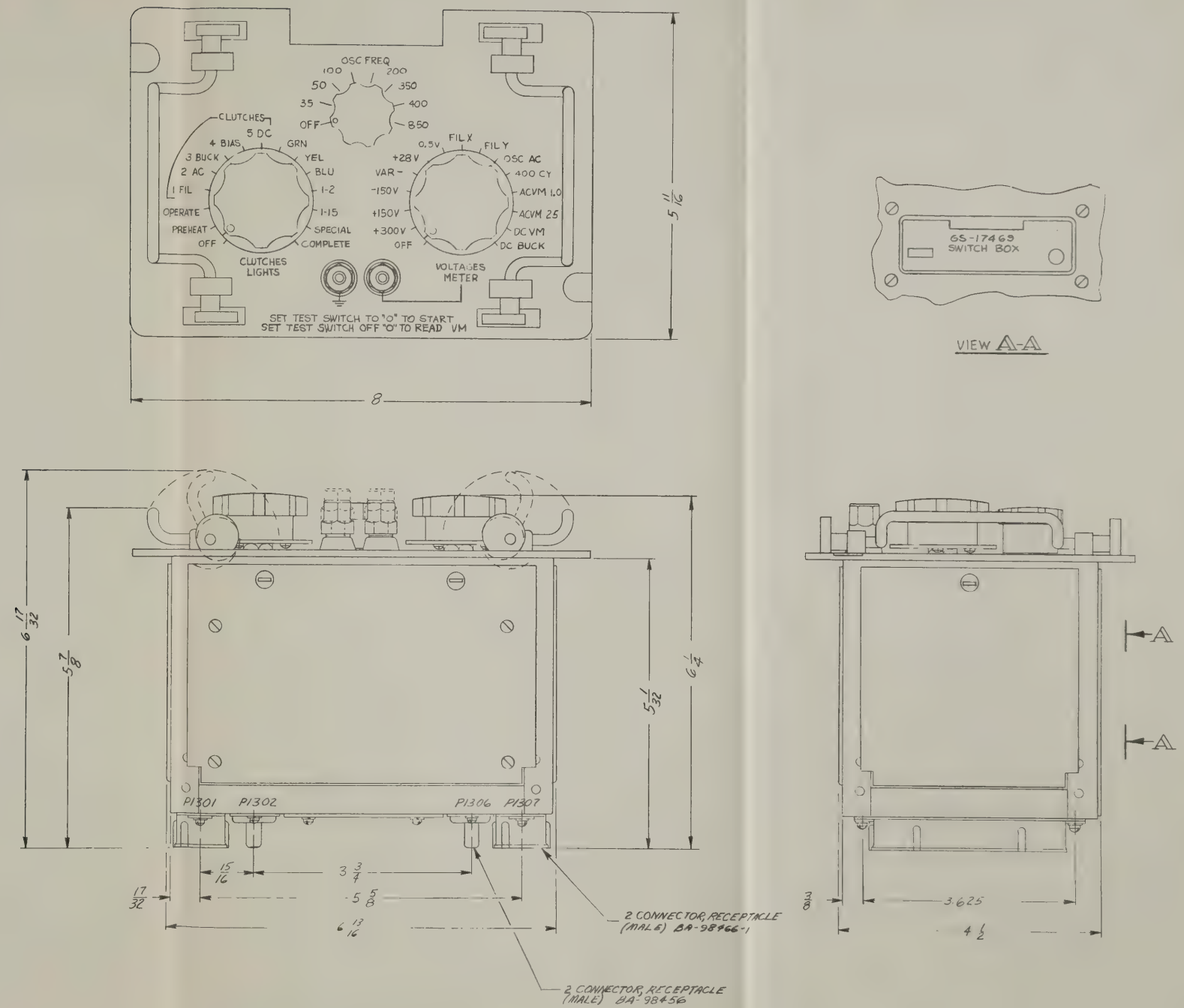


Figure 5-62. GS-17469 Switch Box Outline Drawing (GS-17469, Rev. A)

PARTS LIST

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		IDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
F0000	CA 7CAC	801315	GS 16744 64959	1	TEST EQUIPMENT, AMPLIFIER SUBASSEMBLY, C/O GS-17460 AMP SUBASSM TEST SET, GS-17469 SWITCH BOX, GS-17470 TEST ADAPTER CASE, AND GS-17461, GS-17462, GS-17463, GS-17464, GS-17465, GS-17466, GS-17467, GS-17468 TEST ADAPTERS	1
F1000	CA 7CAC		GS 17460 64959	2	TEST SET AMPLIFIER SUBASSEMBLY, TEST PANEL W/PLUG IN FOR ADAPTER TEST UNITS, AL ALY CONST, 19-1/4 LG X 12-1/8 W X 25-3/8 D APPROX O/A DIM OF PANEL	1
F10005	CA		G 234251 64959	3	TEST SET SUB-ASSEMBLY C/O OSCL AMP, FRAME, PANEL, CHASSIS, PL, AND POWER SUPPLY, 19 LG X 11-1/8 W X 22-3/8 DEEP O/A, AL ALY CONST, PROVIDES APPARATUS FOR ELECT TEST OPERATION	1
F1001	CA 7CWX		G 227573-2 64959	4	HANDLE CRES ROD 5/16 DIA, SAND BLAST FIN, U-SHAPED, 5-5/16 LG X 2-1/4 H O/A, MTS BY TWO .164-32 NC-2B TAP HOLE 1/2 D EA END 5.0 C TO C MKD G-227573-2	2
F1002	7CWX		G 233986 64959	4	CHANNEL AL ALY SH .064 THK, ALKALI ETCH FIN, 16-11/16 LG X 1-1/4 W X 1/4 D, U-SHAPED, FOUR .166 DIA HOLES ON 16.250 X .500 CTRS, MKD G-233986	1
F10025	CB		G 245064 64959	4	CLAMP CRES .064 THK, PASSIVATE FIN, 3-1/4 LG X .878 W X 3/8 THK O/A, ONE .166 DIA HOLE ON ONE MTG TAB, ONE SPLINE NUT ON OTHER MTG TAB, MKD	2

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		IDENT	DESCRIPTION	UNITS PER ASST.
		SERIAL NUMBER	PART NUMBER			
F1003	XB	7CWX	G 233995 64959	4	TUBE AL ALY RECT TUBING, 1-1/8 X 3-7/8 X .064 ALKALI ETCH FIN, TWO 1/2 W X 7/8 LG MTG TABS EA END W/.166 DIA HOLES 4.375 C TO C, 4-3/4 LG X 1-1/8 W X 11-1/8 D O/A, MKD G-233995	1
F10035	AB		G 245437 64959	4	AIRDUCT C/O ALUM TUBING, STL CARBON PL, 11-29/32 IN LG X 4-3/4 IN W X 1-1/8 IN THK O/A, FOUR .166 DIA MTG HOLES, TWO EA END SPD 4.375 C TO C, MKD	1
F10036	CC		G 233995 64959	5	TUBE AL ALY, ALKALI ETCH, 11-23/32 IN LG X 4-3/4 IN W X 1-1/8 IN H, TWO .166 IN DIA MTG HOLES SPD 4.375 IN C TO C	1
F10037	AB		G 245425 64959	5	PLATE STL, CARBON STRIP, .125 THK, ZN PL & CHROMATE FIN, 2-1/2 IN LG X 1 IN W X .125 IN THK BEVELED EDGES, FOUR .164-NC-2B MTG HOLES, MKD	1
F100375	CC		G 245480 64959	5	PLATE STL CARBON, ZN PLT FIN, 15/16 IN LG X 15/16 IN W X .125 THK, CONSIST OF TWO .138-32 NC-2B MTG HOLES SPD .343 C TO C	1
F100377	AC		G 245481 64959	5	ANGLE AL ALY, ANOD FIN, 1-3/8 IN LG X 1 IN W X 7/16 IN H, CONSIST OF THREE .166 DIA MTG HOLES SPD .343 C TO C	1
F10038	CC		G 205654-5 64959	4	CLAMP, ELECTRICAL THERMOPLASTIC NYLON .045 THK, FUNGUS	2

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

Section VI

Parts List

REFERENCE SYMBOL	STOCK NUMBER			INDEXT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F1004	7CWX		G 233957 64959	4	PROOF, SCREW TYPE, .970 LG X 3/8 W X .527 H O/A, HOLDS 7/16 DIA MATERIAL, MTD BY ONE .173 DIA HOLE .520 FROM CTR TO OPEN END OF CLAMP POWER SUPPLY PANEL MTD, C/O 11 ELECTRON TUBES, 1 CAP-RES ASSEMBLY, 1 MOTOR AND BLOWER ASSEM, 2 RECTIFIERS, 3 TRANSFORMERS, AND 1 RECTIFIER, 16-11/16 LG X 9-3/8 W X 6-1/8 D APPROX O/A	1
F1005	7CWX		BA 10069-60 64959	5	SPACER AL ALY, ANODIZED, 5/32 ID X 3/8 OD X 1/16 THK O/A	5
F10055	CA 3370	085400-2225	BA 10178-10 64959 926B DWG1262A 07387	5	RETAINER, ELECT TUBE CRES, HOLDS TUBES W/INTERMEDIATE OCTAL 1.275 DIA BASE, MTG BRKT W/ELONGATED CLEARANCE HOLE FOR NO 10 SCREW, 2-9/16 LG X 1.3 W X 3/4 H APPROX O/A	1
F1006	CA 3370	085400-2565	BA 10178-40 64959 926CDWG1263 07387	5	RETAINER, ELECTRON TUBE, CRES, HOLDS TUBES W/MED OCTAL 1.377 DIA BASE, MTG BRKT W/ELONGATED CLEARANCE HOLE FOR NO 10 SCR, 3 LG X 1.425 W X 3/4 H APPROX O/A	2
F1007	CA 7CWX		BA 10218-19 64959	5	STRAP, MOUNTING MTS ELECTRON TUBE IN CHASSIS W/2 NO 4-40 THK HOLES SPACED 1-1/8 C TO C, CAD PLT BRASS .064 THK, SEMI-OVAL SHAPE 1-13/32 LG X 41/64 W X 3/8 H O/A, ONE HOT TIN DIPPED SOLDER LUG TERM ON BOT END W/STRAP LYING FLAT & CURVE TO RIGHT	2
F1008	CA 7CWX		BA 10218-23	5	STRAP, MOUNTING	6

REFERENCE SYMBOL	STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F10085	XA	8880	64959		MTS ELECTRON TUBE SOC IN CHASSIS W/2 NO 4-40 THD HOLES SPACED 1-1/8 C TO C, CAD PLT BRASS .064 THK, SEMI-OVAL SHAPE 1-11/32 LG X 41/64 W O/A	1
			BL 38194-1 64959	5	INSULATOR STANDOFF C/O TERM MTG STUD & TERM STUD, MELMAC INSUL MOLDING COMPOUND, 13/16 LG X .202 DIA O/A, MTS BY .112-40 THD X .156 LG, TERM STUD .281 LG	
F10087	CC	3320	BL 38194-3 64959	5	INSULATOR, STANDOFF METAL STUD & TERM MOLDED IN MELMAC COM- POUND, 15/16 LG X 7/32 W ACROSS FLATS OF HEX BASE, MTS BY .112-40 X .251 LG THD STUD	5
			BL 83489 64959	5	BLOWER HOUSING MODIFIED NO 2-1/2 BLOWER RIPLEY CO, 4-3/8 LG X 3-7/8 W X 1-3/8 D O/A, MTS BY FOUR .180 DIA HOLES	1
F1010	CC	1670	BL 83490 64959	5	IMPELLER BARREL TYPE ROTOR CLOCKWISE ROTATION, CAD OR ZINC PLT PLUS CHROMATE FIN 2 DIA X 15/16 THK O/A, .250 DIA MTG HOLE IN CTR	1
			G 205654-2 64959	5	CLAMP, ELECTRICAL THERMOPLASTIC NYLON .045 THK, FUNGUS PROOF, SCREW TYPE, .780 LG X 3/8 W X .340 H O/A, MTD BY ONE .173 DIA HOLE	1
F10103	CC		64959	5	CLAMP, ELECTRICAL THERMOPLASTIC NYLON .045 THK, FUNGUS PROOF, SCREW TYPE, .850 LG X 3/8 W X .402 H O/A, HOLDS 5/16 DIA MATERIAL, MTD BY ONE	1
			G 205654-3 64959	5	CLAMP, ELECTRICAL THERMOPLASTIC NYLON .045 THK, FUNGUS PROOF, SCREW TYPE, .850 LG X 3/8 W X .402 H O/A, HOLDS 5/16 DIA MATERIAL, MTD BY ONE	2

REFERENCE SYMBOL	STOCK NUMBER			INCIDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
J1501	F1011	CB 8850 604192	G 210804 64959 26-4401-245 02660	5	•173 DIA HOLE .450 FROM CTR TO OPEN END OF CLAMP	1
	F10115	XB	G 226907 64959	5	CONNECTOR, RECEPTACLE 24 CONT, FEMALE, FLAT, POLARIZED, STRAIGHT TYPE, 3-7/32 LG X 1-1/4 W X 7/8 H APPROX EXCL TERMS, CONTACTS RATED 5 AMP, 750 VDC, RECT SHAPE, CRES, PASSIVATE FIN, TWO MTG HOLES 1/8 DIA, 2-7/8 C TO C	1
	F1012	7CWX	G 233962 64659	5	WASHER, FLAT CRES, .144 ID X .269 OD X .032 THK	1
	F1013	3320	G 233963 64959	5	PANEL, MARKED AL ALY PANEL, MATL .093 THK ALKALI ETCH FIN, 16-11/16 LG X 9-3/8 W X 1-3/8 D O/A, PROVIDES MTG FOR POWER SUPPLY APPARATUS, MKGS 1/8 H CHARACTERS BLK	1
	F1014	7CWX	G 233966 64959	5	BOARD INSULATOR LAM THERMO PLSTC SHT .062 THK, VARNISH PRETREATMENT, L-SHAPED 6-1/8 LG X 5-5/8 W O/A	1
R1203	F1015	CB 8880	G 233965 64959	6	CAPACITOR RESISTOR ASSEMBLY, C/O FLT TERM BOARD MTG 27 RESISTORS AND 6 CAPACITORS ONE SIDE, L-SHAPED 6-1/8 LG X 5-5/8 W X 1 THK APPROX O/A, MTS BY FIVE NO 6-32 X 1/2 LG MACH SCRS	1
	F10155	CC 3350	GA 50508A1002	6	BOARD, TERMINAL MARKED, C/O TERM BOARD WITH 34 TERMS ATTACHED, LAM THERMO PLSTC .093 THK, VARNISH PRETREATMENT, L-SHAPED 6-1/8 LG X 5-5/8 W X 1/2 THK APPROX O/A	2

REFERENCE SYMBOL		STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R1223				64959		10,000 OHMS P/M 1% 1/4 W	
R1201	F1016	XB 3350	380500-5281	GA 50083A2493 64959	6	RESISTOR, FIXED FILM, .249 MEG P/M 1%, 1/2 W, 350V	1
R1202	F1017	XB 3350	384500-4477	GA 50084A1003 64959	6	RESISTOR, FIXED FILM, .1 MEG P/M 1%, 3/4 W	1
R1203	F1018	CC 3350	377500-3739	GA 50508A2212 64959	6	RESISTOR, FIXED FILM, 22,100 OHMS P/M 1%, 1/4 W	2
R1204	F1019	XB 3350	377500-4993	GA 50508A2213 64959	6	RESISTOR, FIXED .221 MEG P/M 1%, 1/4 W, HEAT AND MOISTURE RESISTANT	2
R1204	F10195	CC 3350		GA 50085A2213 64959	6	RESISTOR, FIXED .221 MEG P/M 1%, 1 W	1
R1205	F1020	CC 3350	380500-4297	GA 50083A5622 64959	6	RESISTOR, FIXED FILM, 56,200 OHMS P/M 1%, 1/2 W, 350V	1
R1228	F10205	AB 3350		GA 50084C5621 64959	6	RESISTOR, FIXED 5,620 OHMS, P/M 5%, 3/4 W RESISTANT	1
R1206	F1021	XB 3350	377500-3987	GA 50508A3322 64959	6	RESISTOR, FIXED FILM, 33,200 OHMS P/M 1%, 1/4 W, HEAT MOISTURE RESISTANT	2
R1210	F1022	XB 3350	377500-3491	GA 50508C1002 64959	6	RESISTOR, FIXED FILM, 10,000 OHMS P/M 5%, 1/4 W, HEAT AND MOISTURE RESISTANT	3
R1208	F1023	XB 3350	384500-1311	GA 50084C26R1 64959	6	RESISTOR, FIXED FILM, 26.1 OHMS P/M 5%, 3/4 W	2
R1210	F1024	XB 3350		GA 50508C1002	6	RESISTOR, FIXED	2

GS-I6744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

Section VI

Parts List

REFERENCE SYMBOL		STOCK NUMBER			INOCENT	DESCRIPTION	UNITS PER ASSEMBLY
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R1211	F1025 XB	3350	384500-5593	GA 50084C3483 64959	6	FILM, 10,000 OHMS, P/M 5%, 3/4 W RESISTOR, FIXED FILM, .348 MEG P/M 5%, 3/4 W	1
R1211	F10255 CC	3350		GA 50085C3483 64959	6	RESISTOR, FIXED .348 MEG P/M 5%, 1 W	1
R1212 R1213	F1026 XB	3350	392500-2353	GA 50086B1002 64959	6	RESISTOR, FIXED FILM, 10,000 OHMS P/M 2%, 2W	2
R1212 R1213 R1233	F10265 CC	3350		GA 50086A1503 64959	6	RESISTOR, FIXED .15 MEG, P/M 1%, 2 W	3
R1214	F1027 XA	3350	098000-6631	RC20GF135J MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 1.3 MEG P/M 5%, 1/2 W	1
R1215 R1221	F1028 XB	3350	377500-4598	GA 50508A1003 64959	6	RESISTOR, FIXED FILM, .1 MEG P/M 1%, 1/4 W	2
R1215	F10285 CC	3350		GA 50508A5112 64959	6	RESISTOR, FIXED 51,100 OHMS, P/M 1%, 1/4 W	1
R1216	F1029 XB	3350	377500-5147	GA 50508A3163 64959	6	RESISTOR, FIXED FILM, .316 MEG P/M 1%, 1/4 W	1
R1216	F10295 CC	3350		GA 50084A2872 64959	6	RESISTOR, FIXED 28,700 OHMS, P/M 1%, 3/4 W	1
R1217	F1030 XB	3350	377500-4751	GA 50508A1333 64959	6	RESISTOR, FIXED FILM, .133 MEG P/M 1%, 1/4 W	1
R1217	F10305 CC	3350		GA 50508A1002 64959	6	RESISTOR, FIXED 10,000 OHMS, P/M 1%, 1/4 W	1
R1218	F1031 XB	3350	377500-6131	GA 50508A5113	6	RESISTOR, FIXED	2

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		INCIDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
R1222			64959		FILM, .511 MEG P/M 1%, 1/4 W	1
R1220	CC	377500-1142	GA 50508C26R1 64959	6	RESISTOR, FIXED FILM, 26.1 OHMS P/M 5%, 1/4 W	1
R1224	CC		GA 50508A2213 64959	6	RESISTOR, FIXED .221 MEG P/M 1%, 1/4 W	1
R1227	XB	098000-4391	RC20GF103J MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 10,000 OHMS P/M 5%, 1/2 W	1
C1204 C1208	XB	055950051	CM35B332J JAN-C-5	6	CAPACITOR, FIXED MICA DIELECTRIC, 300 VDCW, 3,300 MMF P/M 5%	2
C1205 C1210	XB	376798200	CM35B202J JAN-C-5	6	CAPACITOR, FIXED MICA DIELECTRIC, 300 VDCW, 2,000 MMF P/M 5%	2
C1205 C1210	CC		CM30B202J MIL-C-5A	6	CAPACITOR, FIXED MICA DIELECTRIC, 500 VDCW, .002 MF P/M 5%	2
C1207 C1209	XB	376144048	CM35B103J JAN-C-5	6	CAPACITOR, FIXED MICA DIELECTRIC, 300 VDCW, 10,000 MMF P/M 5%	2
C1215	CC	055725292	GA 51901 64959	6	CAPACITOR, FIXED 2 MF, P/M 20%, 150 V	1
F1037	7CWX		G 233967 64959	5	BRACKET AL ALY .125 THK ALKALI ETCH FIN, WELD CONST, 4-5/8 LG X 4-1/8 W X 1-1/4 H O/A, MTS BY TWO .219 DIA HOLES C TO C	1
F1038	XB		G 233968 64959	5	SUPPORT AL ALY SQ ROOT ANGLE .125 THK ALKALI ETCH	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
F10385	AB			G 245380 64959	5	FIN, 5/8 LG X 5/8 W X 8-3/8 H O/A 5 ANGLE, SUPPORT AL ALY, ANOD FIN, 9-3/16 IN LG X 1-1/4 W X 1 IN H O/A, SEVEN .199 DIA MTG HOLES IRREGULARLY SPD ON EDGES, ONE .343 DIA HOLE, MKD	1
B1201	F1039	CC 7700	572300-45	KS 15101, L03 64959	5	MOTOR, AC PERM-SPLIT CAP TYPE, 115V AC, 400 CPS, 1 PH 32 W, 90% PF, 1/100 HP, 7200 RPM, CCW ROT, 2 DIA X 3-1/16 LG EXCL SHAFT AND TERM, 1/4 DIA X 3/4 LG FLATTED SHAFT, 4 WIRE LEADS, FLG MTG, 3 NO 6-32 X 7/32 DIA MTG HOLES	1
L1202	F1040	CA 3340	310006110	GA 50004 64959	5	REACTOR FILTER CHOKE, 2.2 H, 100 MA, 415 OHMS DC RESISTANT, 2000V RMS TEST, SILICONE V IMPREGNATED, OPEN FRAME, 1-5/8 LG X 1-1/2 W X 1-7/8 H, TWO NO 6-32 HOLES ON 1 IN MTG/C, 2 SOLDER LUG TERM ON TOP FACE OPPOSITE MTG BRKT	1
T1201	F1041	CC 3340	063953700	GA 50599 64959	5	TRANSFORMER, POWER PLATE TYPE, INPUT 115V, 380/1000 CPS, ELECTROSTATIC SHIELD, 2 OUTPUT WDGS, SECD #1-1100V @ 125 MA CT, 3400V RMS TEST SECD #2-855V @ 18 MA CT, 2500V RMS TEST, SILICONE V IMPG, OPEN FRAME, 2-3/4 LG X 2-1/16 W X 2-5/8 H O/A, 8 SOLDER LUG TERM, TWO 8-32 HOLES ON 1-3/8 MTG/C	1
T1203	F1042	CA 3340		GA 50600 64959	5	TRANSFORMER, POWER FILAMENT TYPE, INPUT 115V, 380/1600 CYC, 1 PH, ELECTROSTATIC SHIELD, 7 OUTPUT WDGS,	1

REFERENCE SYMBOL	STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
CR1201	F1043		GA 51383, L01 64959	5	TWO 6.3V @ 0.525 AMP, ONE 6.3V @ 9.75 AMP, ONE 6.3V @ 0.875 AMP, ONE 6.3V @ 1.2 AMP, ONE 6.5V @ 3.0 AMP, ONE 6.3V @ 2.5 AMP, SILICONE V IMPG, OPEN FRAME, 2-7/16 LG X 2-3/16 W X 3 H O/A, 16 SOLDER LUG TERM, TWO #8-32 HOLES ON 1-3/8 MTG/C	1
L1201	F1044	CA 3340 062455620	GA 52341 64959	5	REACTOR FILTER CHOKE, 1 SECT, 1.0 HENRIES MIN O/A INDUCTANCE, 0.29 AMP DC MAX, 2.2 HENRIES MAX O/A INDUCTANCE, 0.5 AMP DC MIN, 112 OHMS DC RESISTANCE, 4500V RMS TEST VOLTAGE, OPEN FRAME CASE 2-3/8 LG X 2-1/16 W X 2-7/8 H, TWO .138-32 MTG HOLES ON 1-1/8 CTRS, 2 TERMS SOLDER LUG TYPE ON TOP OF WINDING	1
T1202	F1045	CA 3340	GA 52588 64959	5	TRANSFORMER, POWER STEPDOWN, OPEN FRAME, 3 WINDINGS, PRIMARY WINDING 115V, 380 TO 420 CYC, 1 PH, SECD WINDING 33V @ 0.5 AMP, 3V @ 1.2 AMP, 1500V RMS TEST, 2-3/16 LG X 1-7/8 W X 2-3/16 H O/A, 6 SOLDER LUG TERM, TWO 6-32 THD MTG HOLES SPD 1-1/8 C TO C	1
Z1203	F1046	3300 394190658	D 171505 64959	5	NETWORK TWO GLASS SEALED RESISTORS IN 2-3/4 LG X 1-7/32 DIA HS METAL CASE .4 MEG AND .5 MEG EA PLUS .5% MINUS 2% NEGLIGIBLE POWER, USED AS VOLTAGE DIVIDER	1
Z1202	F1047	3300 394190659	D 171506 64959	5	NETWORK TWO GLASS SEALED RESISTORS IN 2-3/4 LG X	1

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	CLASS CODE	SERIAL NUMBER	PART NUMBER			
Z1201	F1048	3300 394190660	D 171507 64959	5	1-7/32 DIA HS METAL CASE 496,250 OHMS AND 181,600 OHMS EA, P/M 1.26%, NEGLIGIBLE POWER, USED AS VOLTAGE DIVIDER	1
C1212	F10485	AB	CP54B1EC504K MIL-C-25	5	NETWORK TWO GLASS-SEALED RESISTORS IN 2-3/4 LG X 1-7/32 DIA HS METAL CASE, 496,250 OHMS AND 256,050 OHMS EA, P/M 1.26% NEGLIGIBLE POWER RATING USED AS REFERENCE VOLTAGE DIVIDER	1
C1203 C1206 C1211	F1049	CA 3330 316958824	CP65B1EF105K MIL-C-25	5	CAPACITOR, FIXED PAPER DIELECTRIC, 600 VDCW, 1 SEC, 1 MF P/M 10%	3
C1201	F1050	CA 3330 056750379	CP70E1EH205K MIL-C-25	5	CAPACITOR, FIXED PAPER DIELECTRIC, ONE SECT, 2 MF P/M 10%, 1500 RATED VOLTAGE	1
C1202	F1051	CA 3330 317094750	CP70E1EG205K MIL-C-25	5	CAPACITOR, FIXED PAPER DIELECTRIC, ONE SECT, 2 MF P/M 10%, 1000 RATED VOLTAGE	1
C1217	F10512	CC 3330	GA 51143,L33 64959	5	CAPACITOR PAPER DIELECTRIC, 1 SECT, .1 MF 300 VDC, 600 VDC BET TERMS, 1-13/32 LG X .416 DIA 20 AWG LEAD WIRE 1-5/8 LG EA END	1
C1213 C1216	F10514	CC 3330 055725292	GA 51901 64959	5	CAPACITOR 2 MF, P/M 20%, 150 VDCW, ELECTROLYTIC	2
C1218 C1219	F10516	AB 3330	GA 52979 64959	5	CAPACITOR	2

REFERENCE SYMBOL		STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
C1212	F1052 XB	3330	057250024	DYRT-107	5	CAPACITOR, FIXED PAPER DIELECTRIC, 1 MF P/M 10%, 220 VACW	1
C1214	F10522 CC	3330		CM15C511J MIL-C-5A	5	CAPACITOR, FIXED MICA DIELECTRIC, 510 OHMS P/M 2%, 300 VDCW	1
C1207 C1209	F10523 AB	3330		CM35B103J MIL-C-5A	5	CAPACITOR, FIXED	2
C1204 C1208	F10524 CC	3330		CM30B332J MIL-C-5A	5	CAPACITOR, FIXED MICA DIELECTRIC, 3300 OHMS P/M 5%, 500 VDCW	2
R1214	F10525 XB	3350	098000-6631	RC20GF135J MIL-R-11A	5	RESISTOR, FIXED COMPOSITION, 1.3 MEG P/M 5%, 1/2 W	1
R1214	F10526 AB	3350		RC20GF135K MIL-R-11A	5	RESISTOR, FIXED COMP 1.3 MEG P/M 10%, 1/2 WATT	1
R1228	F10527 XB			GA 50083C5621 64959	5	RESISTOR, FIXED FILM, 5620 OHMS P/M 5%, 1/2 W	1
R1227	F10528 AB	3350		RC20GF103K MIL-R-11A	5	RESISTOR, FIXED COMP 10,000 OHMS P/M 10%, 1/2 WATT	1
XV1201 XV1202 XV1205	F1053	8850		TS101C01 JAN-S-28A	5	SOCKET, ELECTRON TUBE OCTAL, OVAL SHAPE, CERAMIC BODY, 8 SIL PLTD COP CONT W/SOLDER LUG TERMS, 1-7/8 LG X 1-3/8 W X 1 H O/A, 1 PIECE MTG SADDLE W/TWO 5/32 DIA HOLES 1-1/2 C TO C, 1-1/8 DIA CHASSIS REQ	3
R1208 R1209	F10532 CC	3350		GA 50085C26R1 64959	5	RESISTOR, FIXED 26.1 OHMS P/M 5%, 1 WATT	2
R1230	F10533 XC	3350		GA 50508A7503	5	RESISTOR, FIXED	1

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		SERIAL NUMBER	PART NUMBER			
R1230	CC		GA 50083A7503 64959	5	.750 MEG P/M 1%, 1/4 WATT RESISTOR, FIXED .750 MEG P/M 1%, 1/2 W	1
R1210 R1207 R1219	AC 3350		GA 50508C1002 64959	5	RESISTOR, FIXED 10,000 OHMS P/M 5%, 1/4 WATT	3
R1226 R1206	CC 3350		GA 50508A3322 64959	5	RESISTOR, FIXED 33,200 OHMS P/M 1%, 1/4 WATT	2
R1232	CC 3350		GA 50508A1002 64959	5	RESISTOR, FIXED 10,000 OHMS P/M 1%, 1/4 WATT,	1
R1229	CC 3350	380500-4641	GA 50083A1003 64959	5	RESISTOR, FIXED .100 WATT, P/M 1%, 1/2 WATT,	1
R1201	CC 3350		GA 50083A2493 64959	5	RESISTOR, FIXED .349 MEG P/M 1%, 1/2 WATT,	1
R1225	CC 3350	380500-4297	GA 50083A5622 64959	5	RESISTOR, FIXED 56,200 OHMS P/M 1%, 1/2 WATT,	1
XV1204 XV1210	CB 8850	882870	TS102C01 JAN-S-28A	5	SOCKET, ELECTRON TUBE CERAMIC BODY, OVAL SHAPE, MINIATURE, 7 SIL PL COP CONT W/SHOCK SHIELD & CTR SHIELD .180 OD, 1-1/8 LG X .900 W X 1-3/16 H O/A INCL TERM, ONE PIECE MTG SADDLE W/TWO 1/8 DIA HOLES ON 7/8 MTG. CTRS	2
R1202	CC 3350		GA 50084A1003 64959	5	RESISTOR, FIXED .100 MEG P/M 1%, 3/4 WATT,	1
R1218	AB 3350		GA 50084A3013 64959	5	RESISTOR, FIXED .301 MEG P/M 1%, 3/4 WATT, HEAT &	1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		IDENT	DESCRIPTION	UNITS PER ASSY
		SERIAL NUMBER	PART NUMBER			
R1222	CC 3350		GA 50508A5113 64959	5	MOISTURE RESISTANT RESISTOR, FIXED .511 MEG P/M 1%, 1/4 WATT,	1
R1231	CC 3350		GA 50508A2493 64959	5	RESISTOR, FIXED .249 MEG P/M 1%, 1/4 WATT,	1
R1221	CC 3350	384500-4477	GA 50508A1003 64959	5	RESISTOR, FIXED .100 MEG P/M 1%, 1/4 WATT,	1
XV1203	CB 8850	896725	TS103C01 JAN-S-28A	5	SOCKET, ELECTRON TUBE CERAMIC BODY, OVAL SHAPE, NOVAL, 9 SIL PL COP CONT W/SOLDER LUG TERM, 1-3/8 LG X .940 W X 1-3/16 H O/A, ONE PIECE MTG SADDLE W/TWO 1/8 DIA HOLES 1-1/8 C TO C, W/CTR SHIELD	6
F1056	CA		CP07SA6 MIL-C-25	5	BRACKET MTS PAPER DIELECTRIC, FIXED CAP, SPADE TYPE	2
F1057	CA		CP07SB6 MIL-C-25	5	BRACKET MTS PAPER DIELECTRIC, FIXED CAP, SPACE TYPE	2
F1058	CA 3370	774000-1975	TS102U03 JAN-S-28A	5	SHIELD, ELECTRON TUBE CYL SHAPE, COP OR BRASS NIC PLT, 2-1/4 H X .838 OD O/A EXCL FLG, W/INTERNAL SPG, BAYONET MTG TYPE, TOP W/1/2 DIA HOLE, SALT-SPRAY CORROSION RESISTANT	2
E1203 E1206 E1207 E1209	CA 3370	774000-2185	TS103U02 JAN-S-28A	5	SHIELD, ELECTRON TUBE CYLINDRICAL SHAPE, COP OR BRASS, NIC PLT, 1-15/16 H X .978 OD APPROX O/A EXCLUDING FLANGE, INTERNAL SPG, BAYONET MTG TYPE,	4

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		SERIAL NUMBER	PART NUMBER			
E1208 E1211	CA	3370	774000-2195	TS103U03 JAN-S-28A	TOP W/19/32 DIA HOLE, SALT SPRAY CORR RESISTANT	2
V1204 V1210	CA	3370	286000-6655	5654/6AK5W/6096 MIL-E-1B	5 SHIELD, ELECTRON TUBE CYL SHAPE, COP OR BRASS, NIC PLT, 2-3/8 H X 0.978 APPROX OD O/A EXCL FLG, W/INTERNAL SPG, BAYONET MTG TYPE, TOP W/19/32 DIA HOLE, SALT SPRAY CORROSION RESISTANT	2
V1203 V1209	CC	3370	316000-5675	5670WA MIL-E-1B	5 TUBE, ELECTRON SPECIAL RELIABLE MIN RF PENTODE, SHARP CUT-OFF, SIMILAR TO 6AK5 OF JAN-1A	2
V1211 V1208	CB	3370	298000-5685	5686 MIL-E-1B	5 TUBE, ELECTRON RELIABLE MIN TWIN TRIODE, RECEIVING 1-3/4 H X 7/8 DIA EXCL PINS, 9 PIN BASE	2
V1206	CA	3370	331000-6181	6141 MIL-E-1B	5 TUBE, ELECTRON BEAM POWER PENTODE, RUGGED 2.188 H X 0.875 DIA MAX O/A, MINIATURE BUTTON 9 BASE, RF, RELIABLE, RECEIVING CATHODE AND SCREEN W/MULTIPLE LEADS	1
V1201	CA	3370	314000-5135	5R4WGY MIL-E-1B	5 TUBE, ELECTRON 1-3/4 H MAX X 7/8 DIA MAX, 9 PIN BASE, SMALL BOTTOM, -WE427A-	1
V1205	CA	3370	316000-6125	6AS7G MIL-E-1B	5 TUBE, ELECTRON RUGGEDIZED, FULL WAVE RECTIFIER, OCTAL BASE, 4-3/4 H MAX EXCL PINS X 2-1/16 DIA MAX	1
	CA	3370	316000-6125	6AS7G MIL-E-1B	5 TUBE, ELECTRON RECEIVING, DOUBLE TRIODE, 5-5/16 H X 2-1/16 DIA O/A, MEDIUM SHELL OCTAL BASE, 8 PINS	1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER			INQNT	DESCRIPTION	UNITS PER ASSY
		SERIAL NUMBER	PART NUMBER				
V1202	F1067 XA	3370 304000-6117	6AX5GT MIL-E-1B	5	5	TUBE, ELECTRON	1
	F10675 AA		5852 MIL-E-1B	5	5	TUBE, ELECTRON	1
	F10677 CC	3370 331000-5655	5751 WA MIL-E-1B	5	5	TUBE, ELECTRON HI MU TWIN TRIODE, RECEIVING, 2.19 H X .75 DIA MAX O/A, SMALL BUTTON 9 PIN BASE, RUGGED, RELIABLE	1
V1207	F1068 XA	7CWX	G 233994 64959	4	4	PLATE, BAFFLE AL ALY SH .064 THK, ALKALI ETCH FIN, IRREG SHAPE 5-3/4 LG X 5-3/32 W X 1-1/8 D O/A, C/O PLATE BAFFLE & SPLINE NUT	1
	F10685 CB		G 245076 64959	4	4	AIR DUCT, FLEXIBLE NEOPRENE COATED COTTON FABRIC HOSE W/METAL SPIRAL REINFORCEMENT, 6-3/16 LG X APPROX 2-5/8 W X 3/4 THK O/A	1
K1002-7	F1069	7CAC	G 234015 64959	4	4	CHASSIS SUB-ASSEMBLY C/O 7 RELAYS, 5 TRANSFORMERS, 1 RESISTOR, 2 RESISTOR ASSEM AND ASSOC MTG HDW ON AL CHASSIS, MTS IN TEST CAB, 16-11/16 LG X 9-3/8 W X 3-5/8 D APPROX O/A	1
	F1070	7CWX	BA 10069-60 64959	5	5	SPACER AL ALY, ANODIZED, 5/32 ID X 3/8 OD X 1/16 THK O/A	2
	F1071 CA	3380 552280-7999	BA 98034 64959 SKHX 171 70309	5	5	RELAY, ARMATURE CONT ARRANGEMENT 4C, FOUR 0.070 DIA PALLADIUM CONTACTS RATED 3 AMP AT 26V DC OR 110V AC, 425 OHMS, OPERATING VOLTAGE 26.5V DC, INSULATED COIL, 12 HOOK SOLDER	6

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		SERIAL NUMBER	PART NUMBER			
K1007	F1072	XA			LUG TERMS ON CONTACTS & 2 ON COIL, 1-19/32 LG X 1-13/32 W X 2-25/32 H APPROX O/A, 3 NO 6-32 MTG STUDS ON 1-19/32 X 15/16 CTRS, FAST ACTING, HERMETICALLY SEALED	1
	F1073	XA			NOT USED	
	F10735	CC	3380		NOT USED	
K1001			G 231531	5	RELAY, THERMAL	1
			64959		SPST, 125 VAC, 6 AMP, 32VDC, 3 AMP,	
			3-2-1-095-1053 93929		HERMETICALLY SEALED METAL CASE, 1-13/32 LG X 1-1/32 W X 2-23/32 H O/A, 2 HEATER ELEMENT TERM, 5 TERM FOR CONT, TWO 1/8 DIA MTG HOLES SPD 1-1/8 C TO C, W/1/32 THK MTG FLG	
F10737	CC	8880	747000-3995	5	TERMINAL, LUG	2
			BA 98327-4		RD TONGUE END TYPE, W/TONGUES @ 90 DEG TO EA OTHER & EA BENT 30 DEG, 11/16 APPROX SQ X 11/64 THK O/A, TINNED FIN BRG, TWO 1/64 DIA HOLES FOR SOLDER CONN, TAKES #13 AWG SINGLE 0.144 DIA CTR MTG HOLE	
			122 NO. 6			
F1074	CA	3320	083201910	5	INSULATOR, WASHER	1
			64959		SYN RUB, 1/2 OD X 3/16 ID X 3/32 THK O/A	
F1075	CA	3320	083201905	5	INSULATOR, WASHER	1
			64959		SYN RUB 1-1/8 OD X 3/16 ID X 3/32 THK O/A	
F1076		3320	G 233993	5	INSULATOR, PLATE	1
			64959		LAM THERMOSETTING PLSTC SHT 1/32 THK, VARNISH PRETREATMENT, 5-1/8 LG X 5/8 W O/A, TWO .166 DIA HOLES SPACED 4-1/2 C TO C MKD G-233993	
F1077		7CWX	G 233980	5	CHASSIS	1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		INDEXT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
F1078	XA 8850		64959		AL ALY SHT .091 THK ALKALI ETCH FIN, 16-11/16 LG X 9-3/8 W X 1-1/4 D O/A STAMPED G-233980	1
			G 233987	5	CLAMP, ELECTRICAL	
			64959		AL ALY SHT .040 THK, ALKALI ETCH FIN, 1-5/8 LG X 27/37 W X 7/8 H O/A STAMPED G-233987, MTS BY .166 DIA HOLE ON TAB 7/16 LG X 5/16 W AT BASE OF CLAMP, CLAMPS BY GRIP ACTION	
F1079	7CWX		G 233990	5	RESISTOR ASSEMBLY C/O TERM BOARD MTG 15 RESISTORS ONE SIDE ONLY, 8-1/4 LG X 2 W X 1 THK APPROX O/A	1
F1080	8880		G 233989	6	TERMINAL BOARD,	1
			64959		MARKED, C/O LAM THERMO PLSTC SHT MTG 26 TERMS AND 4 SPACER MTG PADS, 8-1/4 LG X 2 W X 3/4 THK APPROX O/A, MTS BY 4 SPACERS LOCATED ON 7.750 X 1-3/8 CTRS, MKD G-233989 AND POSITION MKGS FOR RESISTORS	
R8	XA 3350	377500-3411	GA 50508A8001	6	RESISTOR, FIXED	1
R1001	CC 3350		64959		FILM, 8,000 OHMS P/M 1%, 1/4 W,	1
		469000-8228	D 178619B	6	RESISTOR, FIXED	
R1007	XB 3350		75,000 OHMS		75,000 OHMS P/M .25%, 1 W	1
			64959			
F1083	XB 3350	447000-1921	D 178618B	6	RESISTOR, FIXED	1
			10 OHMS		10 OHMS P/M .25%, 1/4 W	
F10835	AB		D 178618B	6	RESISTOR, FIXED	1
			10.1 OHMS		10.1 OHMS P/M 25%, 1/4 W	

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R1006	F1084	XB	447000-3183	D 178618B 115 OHMS 64959	6	RESISTOR, FIXED 115 OHMS P/M .25%, 1/4 W	1
	F10845	AB		D 178618B 1260 OHMS 64959	6	RESISTOR, FIXED 1260 OHMS, P/M 25%, 1/4 W	1
R1004	F1085	CA	447000-3867	D 178618B 375 OHMS 64959	6	RESISTOR, FIXED 375 OHMS P/M .25%, 1/4 W	1
R1005	F1086	CA	447000-4212	D 178618B 625 OHMS 64959	6	RESISTOR, FIXED 625 OHMS P/M .25%, 1/4 W	1
R1002	F1087	XA	447000-4661	D 178618B 1,330 OHMS 64959	6	RESISTOR, FIXED 1,330 OHMS P/M .25%, 1/4 W	1
R1002	F10875	AA		D 178618B 1130 OHMS 64959	6	RESISTOR, FIXED 1130 OHMS, P/M .25%, 1/4 W	1
R1009	F1088	XB	098000-5451	RC20GF104J MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 0.1 MEG P/M 5%, 1/2 W	1
R1009	F10885	CC		GA 50084A2052 64959	6	RESISTOR, FIXED, COMP 20,500 OHMS, P/M 1%, 3/4 W	1
R1029 R1030	F1089	XA	098000-4391	RC20GF103J MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 10,000 OHMS, P/M 10%, 1/2 W	2
R1014	F1090	CA	492000-3125	RW55G221	6	RESISTOR, FIXED	5

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		INCIDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
R1015 R1016 R1017 R1018			JAN-R-26A		WW, 220 OHMS P/M 5%, 5 W	
C1001 C1002		F10905 XB	GA 50901 64959	6	CAPACITOR 2.0 MF	2
C1001 C1002		F10907 AB	GA 52979 64959	6	CAPACITOR 6 MF	2
		F1091	G 233992 64959	5	TERMINAL BOARD C/O LAM THERMO PLSTC STRIP 1/8 THK MTG 11 TERMINALS ON 3/8 CTRS, 5-1/8 LG X 5/8 W X 5/8 THK APPROX O/A MKD G-233992	1
		F1092	G 234005 64959	5	RESISTOR ASSEMBLY C/O TERM BOARD MTG 5 RESISTORS ONE SIDE ONLY, 3-1/4 LG X 2-1/8 W X 3/4 THK APPROX O/A, MTS BY FOUR 1/4 H SPACERS ON 2.625 X 1-1/2 CTRS	1
		F1093	G 234004 64959	6	TERMINAL BOARD, MARKED, C/O LAM THERMO PLSTC TERM BOARD 3/32 THK W/VARNISH PRETREATMENT MTG 10 TERMINALS AND 4 SPACERS, 3-1/4 LG X 2-1/8 W X 11/16 THK APPROX O/A	1
		F10935 XA	GA 50508A3160 64959	6	RESISTOR, FIXED FILM, 1/4 W, 316 OHMS, P/M 1%,	1
R1025 R1027		F1094 CC	GA 50085A5114 64959	6	RESISTOR, FIXED FILM, 1 W, 5.11 MEG P/M 1%,	2
R1026 R1028		F1095 CC	GA 50508A1003 64959	6	RESISTOR, FIXED FILM, 1/4 W, 0.1 MEG P/M 1%,	2

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		IDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
R1024	F1096 CA	3350 447000-4788	D 178618B 1,750 OHMS 64959	6	RESISTOR, FIXED 1,750 OHMS P/M .25%, 1/4 W	1
	F10963 AB		G 245320 64959	5	ANGLE, SUPPORT AL ALY, ANOD FIN, 6-11/32 IN LG X 3/4 IN W X 9/16 IN H O/A, C/O SPLINE NUTS & ANGLE, MKD	1
Z1003	F10965 CA	6400 575578-54	GA 52007 64959	5	NETWORK, RATIO C/O 3 RES MTD IN COVER ASSY, 4-11/32 H X 1-23/32 W X 23/32 THK O/A, 3 SOLDER LUG TERM, TWO 1/4 LG THD MTG STUDS 1-1/8 C TO C	1
	F1097 CA	6400	GA 50548 64959	5	NETWORK, RATIO PWR SUP CALIBRATION NET, 5 STAND-OFF TERMS, 1-23/32 LG X 1-7/32 W X 3-25/32 H O/A EXCL TERMS & MTG STUDS, TWO 8-32 THD MTG STUDS, 9/16 LG FROM MTG SUR, SPD 1-1/8 C TO C, HERMETICALLY SEALED	2
T1001	F1098 CA	3340 062752450	GA 51156 64959	5	TRANSFORMER, AF PLATE COUPLING TYPE PRI 35,000 OHMS W/TAP 8,750 OHMS SEC 13,000 OHMS W/TAP 2,000 OHMS, 1 MA DC, SEALED CASE, 4-21/32 LG X 1-11/16 W X 1-3/16 H O/A, TURNS RATIO 1.65 TO 1,350 CPS, 7 RUBBER SEALED SOLDER TERMS, 2 NO 8-32 MTG STUDS 3/4 C TO C	1
	F1099 CA	3340	GA 52535 64959	5	TRANSFORMER, POWER ISOLATION, OPEN FRAME, PRIMARY 6.3V, 400 CPS, 1 PH, SECD 6.3V, CTR TAPPED @ 1 AMP, SILICONE RESIN IMPG, 7/8 LG X 27/32 W X 1-1/8 H, 4 FEED THRU SPLIT STUD TERM, TWO 4-40 THD HOLES SPD 17/32 C TO C, ELECTRO- STATIC SHIELD BETWEEN WINDINGS	2
T1002 T1003						

REFERENCE SYMBOL		STOCK NUMBER			INCIDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
T1005	F1100	3340	297014735	KS 9862 64959	5	TRANSFORMER, AF AUDIO FREQ, PLATE COUPLING TYPE, PUSH-PULL PRIMARY 3,120 OHMS, SECONDARY 1,600 OHMS CT, COMPLETELY ENCLOSED METAL CASE 1-21/32 LG X 1-7/32 W X 2-1/16 H, 0.65 W TURNS RATIO 1.4 T1, 400 CPS ONLY, 6 WIRE TERMS ON TOP, UNSHIELDED, TWO BR INSERTS TAPPED NO 6-32 X 1/4 D ON TOP SPACED ON 1/2 CTRS TROPICALIZED	1
T1004	F1101	3340	296979119	KS 9929 64959	5	TRANSFORMER, AF PRIMARY 827 OHMS IMPEDANCE, SECONDARY 3050 OHMS IMPEDANCE, 600V RMS TEST, METAL CYL CASE, PERMALLOY CORE, PRIMARY SECONDARY TAPPED, 350 TO 450 CYCLES PER SEC FREQ RATING, TURNS RATIO PRIMARY TO SECONDARY 1-2.5, UNSHIELDED, 6 WIRE LOOP TERMS ON TOP OF CASE, 2 NO 4-40 TAPPED MTG HOLES ON 3/8 CTRS	1
R1023	F1102	CA 3350	470500-6265	RB19E30003B MIL-R-93A	5	RESISTOR, FIXED WM, 1/2 W, 3 MEG P/M .1%, RESISTANT TO HIGH HUMIDITY	1
	F1103	CA 7CWX		G 234121 64959	4	PANEL, FRONT TEST APP MTG PANEL, PRINCIPAL PARTS C/O 8 CONN, 4 LIGHT INDICATORS, 2 SW, CLUTCH ASSEM, METER AND RESISTOR-SWITCH ASSEM, 18-3/4 LG X 10-7/8 W X 22 D APPROX O/A	1
	F11035	AC		G 603462-12 64959	5	WASHER, LOCK	2
XF1003 XF1004	F1104	CC 8870	556000-855	BA 10115-5 64959 442001	5	FUSEHOLDER EXTRACTOR TYPE, MAX ELECT RATING OF HOLDER 250V, 15 AMPS, ACCOMMODATES ONE FUSE,	2

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	CLASS CODE	SERIAL NUMBER	PART NUMBER				
F11043	CC		HKM	75915	5	CARTRIDGE TYPE, O/A DIM 2-1/4 LG X 11/16 WD X 11/16 H, BAKELITE FIN, BRASS NI PL, COIL SPRING PRESSURE TYPE, O/A DIM LESS FUSE 2-1/4 LG X 11/16 WD X 11/16 H, TWO SOLDER LUG TYPE TERMS PANEL MTD 1/2-24 X 1/2 LG THD, HEX NUT ATTACHED, MOVABLE CONT 5/64 INCREASE WHEN FUSE INSERTED	1
				71400			
				BA 10169-2			
				UB241			
F11045	AA			64959	5	CLAMP, ELECTRICAL BR5, NI PL, 1/2 W ACROSS HEX FLATS X 7/16 LG O/A, EQUIPPED W/ONE 3/8-32 HEX NUT, CLEARANCE HOLE FOR 1/4 SHAFT THRU CTR	13
				37942			
F1105	CC	880000-225		BA 10142-15	5	LIGHT, INDICATOR 3V, 0.19 AMPS T-1-1/4 CLEAR BULB, .525 LG X 3/8 DIA, BASE THD 5/16-32 NS-3	1
				64959			
				BA 10142-18			
				319A			
F1106	CC	880000-425		64959	5	LIGHT, INDICATOR 3V, 0.19 AMP, T 1-1/4 BULB, W/AMBER PLASTIC CAP, 3/4 LG O/A, BASE THD 5/16-32 NEF-2	1
				24453			
				BA 10142-19			
				319R			
F1107	CC	880000-375		64959	5	LIGHT, INDICATOR 3V, 0.19 AMP, T 1-1/4 BULB, W/RED PLASTIC CAP, 3/4 LG O/A, BASE THD 5/16-32 NEF-2	1
				24453			
				BA 10142-20			
				319G			
F1108	CC	880000-275		64959	5	LIGHT, INDICATOR 3V, 0.19 AMPS, T 1-1/4 BULB W/GREEN PLASTIC CAP, 3/4 LG MAX X .380 DIA, BASE THD 5/16-32 NEF-2	1
				24453			
				BA 10142-21			
				319B			

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER			INCIDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER				
F1001 F1002	AA	7900 360475	BA 25086	64959	5	PIN STRAIGHTENER USED TO STRAIGHTEN CONTACTS ON SEVEN PIN MINIATURE ELECTRON TUBES, CHROMATE FIN, CRES INSERT, 1-31/32 LG X 1-3/32 W X 1-5/16 H O/A, MTS BY TWO 13/64 DIA HOLES ON 1-5/8 MTG CTR	1
			BA 10082-155 313004 MDX4	64959 75915 71400	5	FUSE, CARTRIDGE NI PL GL, 1-1/4 LG X 1/4 DIA, 4 AMP, 125V	4
F1109	XA	7700	BA 62069	64959	5	RECEPTACLE ASSEMBLY C/O CONT ASSEM & AL ALY RECEP BODY, SET TOGETHER, 7/16 DIA X .686 LG O/A, W/32 PITCH STRAIGHT KNURL ON ONE END	3
F11095	AA	1700 019320500	BA 83976	64959	5	PIN STRAIGHTENER USED TO STRAIGHTEN CONTACTS OF 9 PIN MIN ELECTRON TUBES, CHROMATE FIN ZINC ALLOY BODY W/CRES INSERTS, 2 LG X 1-1/4 W X 1-5/16 H O/A, TWO 13/64 DIA MTG HOLES 1-5/8 C TO C	1
F1110	CC	8880 747000-3995	BA 98327-4 122 NO 6	64959 79963	5	TERMINAL LUG RD TONGUE END TYPE, BRASS, TINNED FINISH, #13 AWG WIRE ACCOMMODATED 11/16 LG X 11/16 WD X .015 THK O/A, SOLDER WIRE CONNECTION, ONE .144 DIA CTR MTG HOLE TONGUES AT RIGHT ANGLES TO EACH OTHER	2
J1001 J1002 J1003	CB	8850 618700	BA 98455 26-4200-32S	64959	5	CONNECTOR, RECEPTACLE 32 FLAT GOLD PL FEMALE CONT RATED 5 AMP AT 600 VDC, POL, STR TYPE, RECT DIALLYL	7

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		SERIAL NUMBER	PART NUMBER			
J1004 J1005 J1006 J1007			02660		PHTHALATE BODY, 7/8 W X 3-32/32 LG X 57/64 H O/A, W/CRES MTG PL, TWO MTG HOLES 0.116 DIA X 1/8 LG ON 3-5/8 CTRS EASY DISCONNECT	1
	F1115 CC		BA 98397 64959 M-2786 01121	5	NUT, PLAIN HEX BRS, NI PL FIN, 3/8-32 NEF-28, 1/2 W ACROSS FLATS X 3/32 THK	1
J1008	F1112 CC	522501	G 205529 64959	5	CONNECTOR, RECEPTACLE 3 MALE CONT, 1 RD, 2 CURVED L SHAPE, POLARIZED, STRAIGHT TYPE 3/4 LG EXCL TERM, 1-39/64 W X 2-1/16 H, 10/25 AMP, 250/125V CONT, BRS BODY, NI PL, MOULDED BLK PHENOLIC INSERT, TWO .156 DIA MTG HOLES ON 1/32 X 1-3/4 MTG CTRS, TWIST LOCK TYPE, SCREW TYPE COP PL WIRE TERM	1
	F1113 XA	6500	G 205567-21 64959 A3-1/2T22 72794	5	STUD, FASTENER COWL TYPE, CAD PL STL, SLOT HD, 0.610 LG X 3/8 DIA O/A, MTD IN 7/32 DIA HOLE, FOR .220 MAX THK PANEL	8
	F1114 XA	6500	G 205568-1 64959 GH3-1/2	5	EYELET, METALLIC 0.025 THK AL, OPEN END, RD BBL 0.218 ID, RD BELL FLANGE 3/8 OD, 0.063 H O/A	8
XF1001 XF1002	F1115 CB	553500-465	G 220901-1 64959 HKL-W 41700	5	HOLDER, FUSE EXTRACTOR POST TYPE, W/NEON LAMP & EXTERNAL 220,000 OHM RESISTOR FOR 125-250 VOLTAGE APPLICATION, MAX ELECT RATING OF HOLDER, 250V, 20 AMP, ACCOMMODATES 1 CARTRIDGE TYPE FUSE, FERRULE TERMINALS, 1-1/4 LG X 1/4 DIA, BLK PHENOLIC BODY, BRS ALBALOY PLTD CONTACTS, 2-3/4 APPROX LG	2

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R1030	F11155	AC		G 245673	5	X 13/16 W X 1 APPROX H O/A, 2 TERM, SODR LUG TYPE, MTS BY 5/8-18 THD BUSHING 7/16 LG, D HOLE MTG, EQUIPPED W/CLEAR TRANS-PARENT PLSTC CAP & TWO -0- RINGS FOR WEATHERPROOFING	1
				64959			
	F1116	7CWX		G 226466-7	5	RESISTOR, FIXED W/W, NON-INDUCTIVE, 10 OHMS, P/M 5%, 10 W	1
				64959			
S1002	F11165	AA		G 226904	5	PLATE, IDENTIFICATION AL ALY PLT, .032 THK ETCHED FIN 3 LG X 1 W O/A, MTS BY FOUR .093 DIA HOLES ON 2.750 X .750 CTRS SPL MKGS GS-17460, P/O GS-16744 TEST SET, AMPLIFIER SUBASSEMBLY	1
				64959			
	F1117	CC	073114757	G 227121	5	PLATE CRES .064 THK, 1-1/8 LG X 3/4 W O/A, TWO .196 DIA MTG HOLES SPD .750 C TO C	1
				64959			
	F11175	AA		G 231215	5	SWITCH, ROTARY 18 POS SPG SIL ALLOY CONTACTS, 10 SECT, NON-SHORTING TYPE PHENOLIC INSULATION, 6-1/4 LG FROM MTG SURFACE	1
				64959			
F1118				G 233996	5	SWITCH, SENSITIVE 10 SECTIONS, 18 NO STOP POSITIONS, 20 DEG POS INCREMENT, NON SHORTING SOLID SIL CONTS, CERAMIC ROTOR, 7-1/16 LG X 2-5/8 W X APPROX 2 H O/A	1
				64959			
F1119				G 234001	5	PLATE CRES SH, .064 THK, UNFIN, RECT FRAME 8 LG X 5-11/16 W O/A W/1/2 W SIDES, EIGHT .166 DIA CSK 82 DEG TO .279 DIA HOLES	1

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	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F1120	CA 7CWX		64959		AL ALY SH .064 THK, ALKALI ETCH FIN, RIV CONST, RECT BOX SHAPE, C/O ANGLE FRAME AND PLATES, 8 LG X 7-1/4 W X 8 D O/A	3
			G 234022	5	BUSHING, PLAIN SLEEVE	
			64959		AL ALY, ALKALI ETCH FIN, .343 OD X .171 ID X 15/32 THK O/A	
			G 234023	5	WASHER, PLAIN	
			64959		AL ALY .064 THK, ALKALI ETCH FIN, 5/8 OD X .171 ID X .064 THK O/A	3
F1122	7CWX		G 234028	5	LOUVER, METAL	20
			64959		BRASS, .032 THK NIC PLT, 1-1/8 LG X 1/2 W X 1/2 H O/A	
F11225	AA		G 234852	5	BRACKET, GROUND	2
			64959		.045 THK BRS, 3-31/32 LG X 1/4 W X 5/8 H O/A, ONE 1/8 DIA MTG HOLE ON TABS SPD 3.625 C TO C	
F1123	7CWX		G 233951	5	CLUTCH ASSEMBLY	1
			64959		C/O ELEC & MECHANICAL APPARATUS MTD ON AL ALY FRAME, CHAIN DRIVE CONNECTING FOR VARIABLE POWER TRANSFORMER & VARIABLE RESISTORS, 9-9/16 LG X 5-1/4 W X APPROX 6-3/16 D O/A, THREE .209 DIA MTG HOLES	
F1124	XA 7CWX		BA 98203-39	6	PIN, SPRING	5
			64959		CRES, C-43 TO C-52 ROCKWELL HARDNESS, .094 OD X 0.750 LG O/A, .022 WALL THK, .097 MAX HOLE SIZE	
F1125	CB 3350	804770-5481	G 227204-1	6	RESISTOR, VARIABLE	2
			64959		WW, SLIDING BRUSH TYPE, 2 SEC, 10,000 OHMS, P/M 5%, 2.5 W, LINEAR TAPER, 6 TERM,	

REFERENCE SYMBOL	STOCK NUMBER			INDEXT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F1126	7CWX		G 231274-1 64959 NO 6 MOD 70892	6	SODR LUG TYPE, PHENOLIC ALUM ENCL, 1-3/4 DIA X 1-1/2 D, SINGLE SHAFT, METAL, ROUND, 1/4 DIA, 3/4 LG FROM MTG SURFACE, NORMAL TORQUE, INSULATED CONTACT ARM, NO OFF POSITION, TWO NO 6-32 MTG HOLES ON .437 RADIUS .874 APART	1
F1127	XA 7CWX	G234080-1	G 234080-1 64959	6	BEAD CHAIN CRES, 1/8 DIA BEADS, 27-1/2 CIRCULAR LENGTH	1
F1128	CA 7CWX	G234080-2	G 234080-2 64959	6	SPROCKET WHEEL AL ALY, RD, BLK ANOD FIN, .910 DIA X 1/2 THK, 5/8 DIA SHAFT IN CTR, W/TWO .138-32 NC-2B TAP HOLES, WHEEL 1/4 THK RECESSED FOR #6 CHAIN BEAD ON OUTER EDGE, .252 DIA CTR HOLE	3
F1129	CA 7CWX	G234080-3	G 234080-3 64959	6	SPROCKET WHEEL AL ALY, RD, BLK ANOD FIN, 1.66 DIA X 1/2 THK, 5/8 DIA SHAFT IN CTR, WHEEL 1/4 THK RECESSED FOR #6 CHAIN BEAD ON OUTER EDGE, .252 DIA CTR HOLE	2
F1130	XA 7CWX	G234080-4	G 234080-4 64959	6	SPROCKET WHEEL AL ALY, RD, BLK ANOD FIN, 2.63 DIA X 1/2 THK, 5/8 DIA SHAFT IN CTR, WHEEL 1/4 THK RECESSED FOR #6 CHAIN BEAD ON OUTER EDGE, .252 DIA CTR HOLE	1

REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R1012	F1131	CA 3350	804770-2981	G 227204-4 64959	6	RESISTOR-VARIABLE WW, 2 SECTIONS, FIRST SEC 2000 OHMS, 2ND SEC 100,000 OHMS, P/M 5%, 2.5 W, LINEAR TAPER, 6 SOLDER LUG TERM, ENCLOSED PHENAL CASE, 1-3/4 DIA X 2-1/4 LG O/A, SINGLE SHAFT, RD METAL 1/4 DIA, MTS BY TWO 6-32 HOLES ON .437 R SPD .874 APART	1
R1011	F1132	XB 3350	804770-2921	G 227204-3 64959	6	RESISTOR, VARIABLE WW, 2 SECTIONS, FIRST SEC 2000 OHMS, 2ND SEC 10,000 OHMS, P/M 5%, 2.5 W, LINEAR TAPER, 6 SOLDER LUG TERM, ENCLOSED PHENAL CASE, 1-3/4 DIA X 2-1/4 LG O/A, SINGLE SHAFT, RD METAL 1/4 DIA, MTS BY TWO 6-32 HOLES ON .437 R SPD .874 APART	1
R1010	F1133	CA 3350	804770-8651	G 227204-2 64959	6	RESISTOR, VARIABLE WW, 2 SECTIONS, 100,000 OHMS EA SEC, P/M 5%, 2.5 W, LINEAR TAPER, 6 SOLDER LUG TERM, ENCLOSED PHEN-AL CASE, 1-3/4 DIA X 2-1/4 LG O/A, SINGLE SHAFT, RD METAL 1/4 DIA, MTS BY TWO 6-32 HOLES ON .437 R SPD .874 APART	1
	F1134	7CWX		G 650112-17 64959	6	RING, RETAINER BERY COP, OIL DIP, CASE HARDENED, .2271 D X .025 THK	1
	F1135	7CWX		G 233937 64959	6	SPACER CRES, FLAT, 5/8 OD X .252 ID X 1/8 THK O/A, MKD G-233937	1
	F1136	7CWX		G 233939 64959	6	STOP CRES, 104 HEX, 5/8 LG W/NO 6-32 NC-2B TAPPED HOLE 3/8 D ONE END, MKD G-233939	2
	F1137	7CWX		G 234033	6	SPRING	1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		INDET	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
F1138	XA 7CWX		64959	6	CRES WIRE, 65 COILS, 4-1/8 LG X 1/4 DIA	1
			G 234045		PLATE	
F1139	7CWX		64959	6	AL ALY, .064 THK, ALKALI ETCH FIN, FLT PL, 2 LG X 1-11/16 W O/A, MTS BY FOUR .166 DIA HOLES SPACED ON 1.312 X 1.625 CTRS	1
			G 233932		IDLER	
F1140	CC 7CWX		64959	7	C/O RETAINING RING, SHAFT PLATE & SPROCKET W/SHAFT AND PL SET, RING RETAINS SPROCKET TO SHAFT, 2-1/64 LG X .910 W X 27/32 D APPROX O/A	1
			G 650112-16		RING, RETAINING	
F1141	CA 7CWX	G234082	64959	7	VERY COP, OIL DIP, CASE HARDENED, .170 ID X .015 THK	1
			G 234082		SPROCKET, WHEEL	
F1142	CB 7CWX	G233935	64959	6	C/O AL SPROCKET W/OILITE BEARING INSERT, PRESSED TOGETHER, .562 LG X .910 DIA O/A	4
			G 233935		CONTACT ASSEMBLY	
F1143	CA 7CWX	G233943	64959	6	C/O CONTACT, SPRING & MTG INSULATOR, RIVET CONST, 1-13/16 LG X 7/8 W X 1/2 THK APPROX O/A	1
			G 233943		COUPLING, SHAFT,	
F1144	7CWX		64959	6	FLEXIBLE, C/O SPRING, DISC AND HUB, CRES HUB RIVETED TO SPRING, HUB-SPRING ASSEM RIVETED TO DISC 1-1/8 DIA X 9/32 THK APPROX O/A	1
			G 233947		FRAME	
			64959		C/O TWO .125 THK AL PLATES SERRATED APPROX 2-1/8 BY THREE 1/2 DIA SPACERS, TOP PL MTS 5 BEARINGS AND 1 SHAFT, RIVET AND	

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		SERIAL NUMBER	PART NUMBER			
F1145	CA 7CWX	G233985	G 233985 64959	6	SPOTWELD CONST 9-9/16 LG X 5-1/4 W X 2-1/8 D APPROX O/A COUPLING, SHAFT, FLEXIBLE, C/O SPRING, DISC AND HUB CRES HUB RIVETED TO SPRING, HUB-SPRING ASSEM RIVETED TO DISC 1-1/8 DIA X 9/32 THK APPROX O/A	4
E1014	CB 7CWX	G234235	G 234235 64959	6	CONTACT ASSEMBLY C/O CONTACT, SPRING AND MTG INSULATOR, RIVET CONST, 1-13/16 LG X 7/8 W X 1/2 THK APPROX O/A	2
L1001 L1003 L1004 L1005	CB 7CWX		G 234239-1 64959	6	MAGNETIC CLUTCH C/O PIN, MAGNETIC CLUTCH AND SHAFT, CLUTCH ASSEMBLED TO SHAFT BY PIN, 1-9/16 DIA X 1-11/16 D APPROX O/A, 1-5/8 LG SHAFT	4
L1002	CA 7CWX		G 234239-2 64959	6	MAGNETIC CLUTCH C/O PIN, MAGNETIC CLUTCH AND SHAFT, CLUTCH ASSEMBLED TO SHAFT BY PIN, 1-9/16 DIA X 1-11/16 D APPROX O/A, 3-1/4 LG SHAFT	1
T1006	3340		GA 52566 64959	6	TRANSFORMER, VARIABLE POWER, 6.3V, 400 CYC, SINGLE PHASE, 0-7.4V AT 6.3V INPUT, 2 AMP MAX, 15VA, VOLTAGE VARIED BY MANUAL SHAFT ROTATION, 1250V RMS INSULATION BETWEEN THE WINDING AND FRAME, IMPREGNATED, VARNISH IMPREGNATED, AIR-COOLED, ENCL METAL CASE, 2 LG X 2 DIA, EXCL TERM & SHAFT, 3 SODR LUG TERM, LOCATED ON REAR OF CASE, MTD BY BUSHING 3/8 DIA, 32 THDS PER IN 3/8 LG, MOISTURE & FUNGUS RESISTANT, 1/4 DIA SHAFT, 1-1/4 LG	1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		INDET	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
F1150	CA	7CWX	G 233982 64959	5	PANEL WELD AND ENGRAVING, AL PANEL .125 THK MTG SPACERS, LAMPS, BUSHINGS, ELECTRICAL CONTACTS AND INSULATOR PLATES, AL RIVET & WELD CONST, 18-3/4 LG X 10-7/8 W X 3/4 THK APPROX O/A	1
F1151	XA	8870	BA 10142-15 64959 323 24453	6	LIGHT, INDICATOR 3V, 0.19 AMPS, T 1-1/4 CLEAR BULB, .525 LG X 3/8 DIA, BASE THD 5/16-32 NS-3	13
F11515	XA		BA 70243 64959	6	BUSHING .091 THK CRES, .383 DIA W/5/16-32 TAPPED HOLE, 50 PITCH STRAIGHT KNURL	13
F1152		7CWX	G 233938 64959	6	SPACER CRES, HEX 1/2 ACROSS FLATS, 1-1/4 LG, NO 10-24 NC-2B HOLE THRU CTR W/NO 8-32 NC-2B HOLE SPACED 1/4 FROM END TAPPED TO CTR	2
F1153		7CWX	G 233981 64959	6	PANEL AL ALY, .125 THK, 18-3/4 LG X 10-7/8 W O/A, W/NUMEROUS HOLES AND CUTOUTS	1
F11532	CA		G 234006 64959	6	WINDOW, ACRYLIC PLSTC ACRYLIC SH, HEAT RESISTANT, WH LAC PLUS BLK LAC FIN, 3-5/8 LG X 3-1/2 W X 7/16 THK O/A	1
F11533	CA		G 234007 64959	6	CONTACT ELECTRICAL BERY COP, .020 THK, UNFIN, 3-1/8 LG X 3-1/2 W O/A	1
F11534			G 234008	6	INSULATOR, PLATE	1

REFERENCE SYMBOL	STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASBY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F11535	XA		64959		BER COP, .020 THK, 3-1/2 W X 3-5/8 LG O/A, CUTOUT IN CTR, TAB BENT UP ONE SIDE	1
			G 234024 64959	6	PLASTIC, SHEET WH VINYLITE SH .010 THK, 3-9/16 LG X 2-9/16 W O/A, FIVE GROUPS OF FOUR .1406 DIA HOLES ON .500 X 2.312 CTRS AND TWO .312 DIA HOLES 2.000 C TO C	
F11536	CA		G 234026 64959	6	REFLECTOR, LIGHT PLSTC ACRYLIC SH, 5/16 THK, WH LAC PLUS BLK LAC FIN, 2-9/16 LG X 11/16 W O/A, MTS BY FOUR .1406 DIA HOLES CBORE .250 DIA X 1/16 D SPD ON .500 X 2.312 CTRS, TWO .219 DIA X 1/4 D HOLES SPD 2.00 C TO C	5
			G 234027 64959	6	CONTACT, ELECTRICAL BERY COP ALY .031 THK, L-SHAPED 2-9/16 LG X 11/16 W X 1/2 H O/A, FOUR .1406 DIA HOLES ON .500 X 2.312 CTRS, TWO .219 DIA HOLES SPD 2.000 C TO C AND ONE SLOT 1-1/2 LG X .500 W W/R EA END IN BASE, .078 DIA HOLE IN TAB	5
F11537	CA		G 245053 64959	6	LABEL, TRANSLUCENT PLSTC, VINYL BUTYRAL, 3-5/8 LG X 2-9/16 W W .020 THK O/A, FUTURE DEMIBOLD, 12 & 10 PT CHARACTERS, BLK ON WHITE	1
			G 234204 64959	6	FILM, PHOTOGRAPHIC, PROCESSED, KODALITH TYPE 2 OR EQUAL, 3-9/16 LG X 2-9/16 W O/A, 12 PT FUTURA DEMIBOLD MKGS	1
F11539	XB		G 226905 64959	6	NUT ANCHOR CRES BAR .375 OD X 25/64 LG O/A, .190-24	1

REFERENCE SYMBOL	STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSEMBLY
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F11539	A		G 235855 64959	5	NC-2B THD CTR HOLE, .288 DIA X 5/64 LG HUB ONE END CAM CRES BAR .484 OD X 13/32 LG, 7/32 LG SHAFT W/1/64 X 1/64 UNDERCUT AT BASE OF HD, 45 DEG TAPER ON HD	1
F1154			G 234010 64959	5	METER, ARBITRARY SCALE, C/O ARBITRARY SCALE, METER, VIBRATOR METER, MOUNTING, GROMMET & HDW, 5-1/8 LG X 4-5/8 W X 2-1/8 D APPROX O/A, MTS ON THREE RUBBER GROMMETS	1
F1155	CA	6600	BA 10145-8 64959	6	GROMMET STANDARD SYNTHETIC, 5/8 DIA X 7/16 THK O/A, 1/16 X 3/16 D GROOVE CTR AROUND EDGE, 1/4 DIA CTR HOLE	3
F1156	CA	0800	G 227149 64959 MODEL 1541 65092	6	METER, ARBITRARY SCALE, PANEL MTD TYPE, DC CIRCUIT, 60 TO 140 CM GRADUATED IN 40 DIVISIONS VERT RED LINE AT 100 SCALE MKG, GRN ZONE 90 TO 110, YEL ZONE FROM BELOW 60 TO 100, BLU ZONE FROM 100 TO ABOVE 140, RD STL CASE 4.58 DIA X .038 THK FLG, 2.78 DIA X 1.15 D BODY FROM MTG SUR EXCL TERMS, SIX 0.150 DIA MTG HOLES ON 2.062 R SPACED 60 DEG APART, 2 TERMS, SCR SOLDER TERM TYPE	1
F1157			G 234009 64959	6	PLATE METER MOUNTING, AL ALY SH .064 THK, ALKALI ETCH FIN, 5-7/8 LG X 4-5/8 W O/A, 3.590 DIA HOLE IN CTR W/FIVE .166 DIA HOLES AND THREE .438 DIA HOLES SPACED AROUND CIRCLE	1
F1158	CC	922400	G 234084	6	VIBRATOR, METER	1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		IDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
F1159	7CWX		64959 C-51A-100	5	5/8 DIA X 1-11/16 LG O/A, MTS BY TWO NO 4-40 NC-28 TAPPED HOLES IN BASE SPACED .688 C TO C, MKD G-234084	1
			25140			
			G 234030		RESISTOR AND SWITCH ASSEMBLY, C/O PLATE MTG, FOUR VAR RES AND FOUR SEN SWITCHES ONE SIDE AND TWO BLOCKS OPP SIDE 5-1/8 LG X 1-7/8 W X 2 D O/A	
R1019	CA 3350	793000-2451	64959 BA 99069	6	RESISTOR VARIABLE COMPOSITION, 10,000 OHMS, P/M 10%, 2W, 3 SOLDER LUG TERM, ENCLOSED METAL CASE, 4-1/16 DIA X 9/16 D O/A, SLOTTED MTL SHAFT, 1/4 DIA X 5/8 LG FROM MTG SURFACE, STD A TAPER, INS CONT ARM W/O OFF POS, NORMAL TORQUE W/SHAFT LOCK DEVICE, HEX LOCKNUT, BUSHING 3/8-32 X 1/2 LG, NON TURN DEVICES LOCATED ON 17/32 RAD AT 3 AND 9 O CLOCK	1
			JLU 10,000 OHMS 01121			
R1020 R1021 R1022	CA 3350	793000-3144	64959 BA 99307	6	RESISTOR VARIABLE COMPOSITION, COMP, 1, 1 SEC, 35,000 OHMS, P/M 10%, 2 W, 3 SODR LUG TERM, ENCL MET CASE 1-1/16 DIA X 9/16 D SLTD MET SHAFT 1/4 DIA X 5/8 LG, W/HEX LOCKNUT, INS CONT ARM, BUSH 3/8-32 THD X 1/2 LG	3
			JLU 35,000 OHMS 01121			
F1162	CA 3360		64959 G 231290	6	SWITCH, PUSH CONT ARRANGEMENT 4C, 125/250 VAC 15 AMP, 30 VDC, 15 AMP RESISTIVE LOAD, 10 AMP INDUCTIVE LOAD, PHEN BODY, 1-1/4 LG X 53/64 W X 1-45/64 H O/A EXCL TERM & EXTERNAL ACTUATOR, 9/32 DIA X 21/64 LG CRES PLUNGER TYPE ACTUATOR, 8 SOLDER LUG TERM, MTS BY 15/32-32 X 1/2 LG THD BUSH,	4

REFERENCE SYMBOL	STOCK NUMBER			INDEMT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F1163	7CWX		G 234021 64959	6	W/HEX NUTS & STL FLG PLATE AL ALY 3/32 THK ALKALI ETCH FIN, 5-1/8 LG X 1-7/8 W O/A, W/HOLES FOR MTG VAR RESISTORS AND SWITCHES, MKD G-234021	1
F1164	7CWX		G 234029 64959	6	BLOCK CRES BAR, 13/32 LG X 5/16 W X 1-3/4 D O/A W/THREE .138-32 NC-2B TAPPED HOLES 1/4 FROM END, SPACED .500 AND 1.250 FROM CTR OF FIRST HOLE, MKD G-234029	2
F1165	7CWX		G 603462-17 64959	6	WASHER, LOCK	4
F1166	7CWX		G 234040-1 64959	5	SCREEN TWO FRAMES ENCLOSING WIRE CLOTH 12 X 12 MESH, 3-3/16 LG X 1-3/16 W X 1/8 THK APPROX O/A, SPOTWELD CONST, TWO .166 DIA HOLES 2.875 C TO C, MKD G-234040-1	1
F1167	7CWX		G 234043 64959	5	LAMPHOLDER C/O INSULATOR WASHER, CONTACT AND RECEPTACLE ASSY, 5/8 DIA X 11/16 D O/A	1
F1168	7CWX		G 234046-1 64959	5	SCREEN TWO FRAMES ENCLOSING WIRE CLOTH 12 X 12 MESH, 6-1/2 LG X 1-3/16 W X 1/8 THK APPROX O/A, SPOTWELD CONST, MTS BY THREE .166 DIA HOLES, MKD G-234046-1	1
F1169	7CWX		G 234056 64959	5	CLAMP TOGGLE PRESS TYPE CLAMP W/FOUR POINT HINGE ACTION, HAND OPERATED, O/A DIM IN CLOSED POSITION 5-7/16 LG X 2-1/2 W X 2-1/8 D	1

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	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F1169	7CWX		G 234057 64959	6	APPROX PIN, GROOVED HEADLESS CRES WIRE, .124/.122 DIA X 1-1/2 LG O/A, TWO GROOVES .012 W X .005/.007 D SPACED 5/16 FROM END AND .906 APART	2
F1170	7CWX		G 234058 64959	6	LINK, LEVER CRES .091 THK, UNFIN, 7/8 LG X 3/8 W O/A, W/TWO .1258/.1250 DIA HOLES SPACED .500 C TO C	2
F1171			G 234059 64959	6	WASHER, FLAT BER COP, 3/8 OD X .136 ID X .016 THK O/A	8
F1172	7CWX		G 234060 64959	6	LEVER CRES .090 THK, UNFIN, 2-11/16 LG X 45/64 W X 13/32 D O/A W/TWO .1258/.1250 DIA HOLES, LEFT HAND PART MKD G-234060	1
F1173	7CWX		G 234061 64959	6	LEVER CRES .090 THK, UNFIN, 2-11/16 LG X 45/64 W X 13/32 D O/A W/TWO .1258/.1250 DIA HOLES, MKD G-234061	1
F1174	CA 7CWX		G 234062 64959	6	HANDLE, LEVER PHENOL FIBRE, 5/16 THK, BLK, 2-1/2 LG X 3/4 W X 5/16 THK O/A W/TWO .161 DIA HOLES X 5/16 D PLUS C BORE .437 DIA X 3/16 D SPACED 1.625 C TO C MKD G-234062	1
F11745	AA		G 226897 64959	6	SPRING CRES WIRE, .035 DIA, 5/8 LG X .815 W X .503 DEEP, TWO GROUPS OF COILS 7 COILS EACH, .247 LG LOOP W/1/16 R BEND 1/8 W	1
F1175	7CWX		G 234068	6	PIN GROOVED, HEADLESS	2

REFERENCE SYMBOL	STOCK NUMBER			INDBENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F1176			64959		CRES WIRE, .122/.124 DIA, X 1-3/8 LG, W/TWO GROOVES .012 W X .005/.007 D, 11/32 FROM END SPD AT .688	8
			G 650112-4 64959 5100-12 CMF	6	RING, RETAINER EXT USE, CAD PL BERY COP, 0.114 MAX FREE ID X 0.010 THK, U/W 1/8 DIA SHAFT	1
		7CWX	G 234063 64959	6	HANDLE, LEVER LAM THERMO PLSTC 5/16 THK, BLK, 2-1/2 LG X 3/4 W X 5/16 THK O/A, W/TWO NO 6-32 NC-2B KNURLED NUTS PRESSED INTO HANDLE AND SPACED 1.625 C TO C, MKD G-234063	1
		7CWX	G 234065 64959	6	PLATE, PRESSURE CRES .090 THK, C/O TWO HINGE PLATES WELDED AT R ANGLES TO A PRESSURE PLATE, 2-1/2 LG X 2 W X 7/8 D O/A, MATCHING HOLES IN HINGE PLATE .1258/.1250 DIA SPACED .500 C TO C, RUBBER PAD CEMENTED TO PRESSURE PLATE, MKD G-234065	1
F1179	7CWX		G 234066 64959	6	BLOCK MTS CLAMP TO APPARATUS, AL ALY BAR 1-1/2 SQ, ANOD PLUS GRAY EQUIP ENAMEL FIN, 1.125 W X 7/16 D CUTOUT ON FACE W/MATCHING HOLES IN SIDES .1258/.1250 DIA, MTS BY TWO NO 8-32 NC-2B INSERTS SPACED .750 C TO C	1
F1180	XA 8850	697864	G 234124 64959	5	CAP C/O ASSEMBLED CAP, PLATE AND SPRING, RIVET CONST, AL ALY, BLK ANODIZED FIN CAP & PLT, CRES WIRE SPRING, NORMALLY CLOSED, .782 DIA X 17/32 D O/A, MKD G-234124	3
F11805	AA		G 207385	5	CAP	3

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		SERIAL NUMBER	PART NUMBER				
F1181	CA 3320		64959 G 234127-1 64959	5		1 KNOB ASSEMBLY C/O KNOB AND DIAL ATTACHED BY THREE NO 4-40 MACH SCRS, 2-108 DIA X 1-1/32 H O/A, DIAL UNMARKED	1
F1182	XA 3320	083351424	B0 94383-13 64959	6		1 KNOB BLK BAKELITE, POS OCT GRIP, 15/16 H X 1-5/8 DIA, INSERT FOR .253 DIA SHAFT, LOCKS BY TWO .164-32 HEX SOC SET SCRS	1
F11825	AA		B0 98384-13 64959	6		1 KNOB	1
F1183	CA 3320	080149701	G 234067-1 64959	6		1 DIAL, SCALE AL ALY, .091 THK, ANOD PLUS BLK ZINC CHROMATE PLUS BLK LACQUER FIN, 2-1/8 DIA W/THREE .136 DIA HOLES ON .468 R SPACED 120 DEG APART, 5/8 DIA HOLE IN CTR, MKD G-234067	1
F1184	CA 3320		G 234127-2 64959	5		1 KNOB ASSEMBLY C/O KNOB AND DIAL, ATTACHED BY THREE NO 4-40 MACH SCRS, 2-1/8 DIA X 1-1/32 H O/A, DIAL MKD IN 20 DEG GRAD O THRU 17 CCW ROTATION	1
F1185	CA 3320	083351424	B0 94383-13 64959	6		1 KNOB BLK BAKELITE POS OCT GRIP, 15/16 H X 1-5/8 DIA, INSERT FOR .253 DIA SHAFT, LOCKS BY TWO .164-32 HEX SOC SET SCRS	1
F11855	AA		B0 94384-13 64959	6		1 KNOB	1
F1186	CA 3320	080552012	G 234128	6		1 DIAL, SCALE	1

REFERENCE SYMBOL	STOCK NUMBER			INCIDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
J1009 J1010 J1011	F1187	7CWX	64959	5	AL ALY .091 THK, ANOD PLUS BLK ZINC CHROMATE PLUS BLK LACQUER FIN, 2-1/8 DIA W/THREE .136 DIA HOLES ON .468 R SPACED 120 DEG APART, 5/8 DIA HOLE IN CTR, MKD 0 THRU 17 AT 20 DEG GRADUATIONS CCW ROTATION, MKD G-234128 ON REVERSE SIDE	2
			G 234040-2	5	SCREEN	
			64959	5	TWO FRAMES ENCLOSING WIRE CLOTH 20 X 20 MESH, 3-3/16 LG X 1-3/16 W X 1/8 THK APPROX O/A, SPOTWELD CONST, TWO .166 DIA HOLES 2.875 C TO C MKD G-234040-2	1
			G 234046-2	5	SCREEN	
			64959	5	TWO FRAMES ENCLOSING WIRE CLOTH 20 X 20 MESH, 6-1/2 LG X 1-3/16 W X 1/8 THK APPROX O/A, SPOTWELD CONST, MTS BY THREE .166 DIA HOLES, MKD G-234046-2	1
J1009 J1010 J1011	F1188	7CWX	64959	5	SPRING	
			G 235856	5	BERY COP .012 THK, HEAT TREATED FIN, 7/8 LG X 27/32 W X .093 THK O/A, TWO .113 DIA HOLES SPD .375 C TO C	1
			64959	5	JACK, TELEPHONE	3
			TYPE JJ-083 JAN-J-641	5	C/O BRKT W/HEX NUT, WASHER & 4 SIL SPRINGS, SPRINGS ASSEM BY 2 SCREWS, 3-1/8 LG X 1-1/8 H X 5/8 W O/A, TWO OPEN CONT, HEX NUT 1/2 ACROSS FLATS	
			746400	5	CONTACT, ELECTRICAL	1
S1001	F1189	CA 8850	64959	5	CRES, 3/8 W, ONE .112-40 NC-28 DIA CTR HOLE 5/32 D	
			64959	5	SWITCH, TOGGLE	1
			ST22K	5	DPDT, 2 POS AC-DC, 250V MAX @ 2 AMPS	
			395853000	5		
			JAN-S-23	5		

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	CLASS CODE	SERIAL NUMBER	PART NUMBER			
P1001	F11901 AA		G 245063 64959	5	RESISTIVE OR 1.5 AMPS INDUCTIVE LOAD, PLSTC BODY 1-9/32 LG X 23/32 W X 31/32 D INCL TERM, 6 SOLDER LUG TYPE TERM ON BACK, 1 HOLE MTG W/BUSHING 15/32-32 X 15/32 LG BEYOND BODY, 2-1/8 D O/A	1
	F11902 AC		G 245674 64959	5	FLANGE, AIR DUCT CRES .063, PASS FIN, 3-3/16 X 1-3/16 W X .439 THK, TWO .166 DIA MTG HOLES SPD 2.875 C TO C, ONE 2-3/8 X 1/2 CTR HOLE, WELD CONST	1
	F11903 AA		G 234398 64959	4	SPRING, FLAT STL, ZN PL, 1-13/16 LG X 1/4 W X .015 THK, THREE .128 DIA HOLES	1
P1002 P1003	F11905 CC	8850 356993	G 210819 64959	5	WIRING HARNESS	1
	F11907 CC		G 210821 64959	5	CONNECTOR, RECEPTACLE	2
	F1191 CA	7CWX	G 234240-1 64959	4	CONNECTOR, RECEPTACLE	1
F1192	CA 7CWX		BA 10091-958 64959	5	FRAME AL ALY, CHROMIC ACID FIN, C/O SQ ROOT ANGLE 5/8 X 5/8 X 1/8 X ASSORTED LGTHS, ANCHOR NUT, SPLINE NUTS AND FASTENERS, WELD AND RIVET CONST, 19-3/4 LG X 8 W X 1-1/8 THK O/A	2
	CB		G 226905	5	FASTENER MUN, CAD PLT, APPROX .621 LG X 13/32 W X .200 THK O/A NUT, ANCHOR	1

REFERENCE SYMBOL	STOCK NUMBER			INCHES	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F11925 AA			64959 G 234240-2 64959	4	CRES BAR, .375 OD X 25/64 LG O/A, .190-24 NC-28 THD ID, .288 OD X 5/64 LG HUB FRAME AL ALY, CHROMIC ACID FIN, C/O SQ ROOT, ANGLE 5/8 X 5/8 X 1/8 X ASSORTED LGTHS, SPLINE NUTS & FSTNRS, WELD & RIVET CONST, 19-3/4 LG X 8 W X 1-1/8 THK O/A	1
F11927 AA			BA 10091-958 64959	5	FASTENER MUN, CAD PL, APPROX .621 LG X 13/32 W X .200 THK O/A	2
F1193	7CAC		G 234543 64959	4	OSCILLATOR AMPLIFIER SUBASSEMBLY, PANEL MTD C/O CONNECTORS, ELECTRON TUBES, RESISTOR-CAPACITOR ASSEMBLY, RESISTORS AND CAPACITORS, 16-3/4 LG X 9-3/8 W X 5-1/8 D APPROX O/A	1
F11932 CC			BA 10013-22 64959	5	INSULATOR, WASHER PHENOL FIBRE, NAT COLOR, WAX IMPREGNATED, 5/32 ID X 5/8 OD X 1/16 THK O/A	23
F11935 CA			BA 10145-43 64959 9687 71294	5	GROMMET, RUBBER BLK, 3/4 DIA X 1/4 ID X 11/32 D O/A, 3/32 W X 1/8 D SLOT	1
F1194	8850		G 234556 64959	5	CLAMP AL ALY, 1/2 LG X 3/8 W X 3/8 THK O/A, CLEARANCE HOLE FOR NO 6 SCR THRU CTR	3
F1195	8850		G 234555 64959	5	CLAMP AL ALY, 2-23/32 LG X 1/2 W X 3/4 D O/A, L-SHAPED W/3/32 W X 1-9/16 LG SLOT FROM SMALL END MKD G-234555	1

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		SERIAL NUMBER	PART NUMBER			
F1196	XA	7CWX	BA. 10217-1 64959	4	SPACER STEEL, ZN PL, CHROMATE FIN, .138-32 NC TAP HOLE, 25/64 LG X .250 OD, .166 DIA X 9/64 LG SHANK, .144 DIA X 7/32 CBORE, .175 DIA X .045 THK, 40 PITCH STIGHT KNURL SECTION .163 FROM END OF SHANK	13
F1197		3370	BA 10218-20 64959	5	STRAP, MOUNTING MTS ELECT TUBE IN CHASSIS W/2 NO 4-40 THD HOLES SPD .875 C TO C, BRS .064 THK COP PLUS TIN PLY, SEMI-OVAL SHAPE, 1-3/16 LG X 9/16 W X 3/8 H O/A, ONE HOT TIN DIPPED SODR LUG TERM ON BOT END W/STRAP LYING FLT & CURVE TO RIGHT	3
F1198		3370	BA 10218-23 64959	5	STRAP, MOUNTING MTS ELECT TUBE SOC IN CHASSIS W/2 NO 4-40 THD HOLES SPD 1-1/8 C TO C, CAD PL BRS, .064 THK SEMI-OVAL SHAPE, 1-11/32 LG X 41/64 W O/A	5
F1199	CC	3320 331265967	BL 38194-3 64959	5	INSULATOR, STANDOFF METAL STUD AND TERM MOLDED IN MELMAC COMPOUND, 15/16 LG X 7/32 W ACROSS FLATS OF HEX BASE, MTS BY .112-40 X .251 LG THD STUD	1
Z1102	CC		G 228804 64959	5	NETWORK	1
F11992	AA		G 228783 64959	6	COVER BRS STRIP .020 THK, NI PL, 3-1/2 LG X 1-3/4 W X 1-3/4 H O/A, .128 DIA CTR HOLE IN ONE END, MKD	1
F11993	AA		G 228802	6	BRACKET, MARKED	1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		IDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
			64959		C/O AL ALY BRKT W/SPLINE NUTS & LAM THERMOSETTING PLSTC BASE W/4 TERM STUDS, APPROX 3-15/64 LG X 1-5/8 W X 15/16 H O/A, MKD	6
F11994	CC		BA 10013-22 64959	6	WASHER, INSULATOR PHENOL FIBRE, IMPREGNATING WAX, NAT COLOR, 5/32 ID X 5/8 OD X 1/16 THK	2
F11995	XC	3320	BL 38194-3 64959	6	TERMINAL, STUD	2
F11995	AC		BL 38194-1 64959	6	TERMINAL, STUD C/O TERM MTG STUD & TERM STUD MELMAC INSUL MOLDING COMPOUND, 13/16 LG X .202 DIA O/A, MTS BY .112-40 THD X .156 LG, TERM STUD .281 LG	1
R1102	CC		BA 99385-6 64959 160-1-103 80294	6	RESISTOR, VARIABLE LINEAR PRECISION, WW, 1 SECTION, 10,000 OHMS, P/M 10%, P/M .5 TO 1.0% LINEARITY, .6 W PWR RATING, 38 DEG C AMBIENT, ROTARY MOTION SHAFT TYPE, 8100 DEG ELEC ROTATION, PLSTC CASE/W METAL COVER, MECHANICAL MOTION SHAFT DATA - 9000 DEG ROTATION, O/A TORQUE DATA - APPROX .5 OZ.-IN. STARTING, 1-1/4 D X 1/4 W X 5/16 H, 1/8 DIA SHAFT, .040 IN EXPOSED LENGTH, RD, SLOTTED, TERM TYPE, 3 WIRE LEAD, TWO .090 DIA MTG HOLES SPD 1 IN C TO C, OPERATING TEMP RANGE -54 DEG TO 177 DEG C, COLOR CODED TEFLON INS WIRE LEADS	1
C1101	AA	3330	GA 51143L26 64959	6	CAPACITOR, FIXED .22 MF	1
R1107	XC		RC20BF106M	6	RESISTOR, FIXED	1

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		SERIAL NUMBER	PART NUMBER				
R1107	F11985 AC		MIL-R-11A RC20GF106M MIL-R-11A	6	COMPOSITION, 10 MEG P/M 20%, 1/2 W	1	
R1101	F11999 AA		RB17E46282B MIL-R-93A	6	RESISTOR, FIXED .4628 MEG	1	
	F1200				NOT USED		
R1103	F12001 CC	3350	RB15E10482C MIL-R-93A	6	RESISTOR, FIXED .1048 MEG	1	
R1105	F12002 AA	3350	RB17E41152C MIL-R-93A	6	RESISTOR, FIXED .4115 MEG	1	
K1101 K1102 K1103	F12004 CA	3380	BA 98034 SKHX-171 64959 70309	5	RELAY, ARMATURE CONT ARRANGEMENT 4C, FOUR 0.070 DIA PALLADIUM CONTACTS RATED 3 AMP AT 26 VDC OR 3 AMP AT 110 VAC, 425 OHMS OPERATING VOLTAGE, 26.5 VDC, INSULATED COIL, 12 HOOK SODR LUG TERMS ON CONTACTS & 2 ON COIL, 1-19/32 LG X 1-13/32 W X 2-25/32 H APPROX O/A, 3 NO 6-32 MTG STUDS ON 1-19/32 X 15/16 CTRS, FAST ACTING, HERMETICALLY SEALED	3	
F12005	XB 8850		G 210821 64959 26-4501-24P 338 02660	5	CONNECTOR, PLUG 24 NI SIL MAL CONT, FLAT POL STRAIGHT TYPE, 3-3/8 APPROX LG X 1-1/4 W X 1-27/32 H O/A, CRES BODY, RECT SHAPE, LKG TYPE, DIALYL PHTHALATE INSERT 9/16 DIA CABLE OPENING, ACCOMMODATE 18 AWG WIRE	1	
J1101	F1201 CA	8850	G 210802 587932 64959	5	CONNECTOR, RECEPTACLE 16 FEMALE FLT POLARIZED STIGHT TYPE CONT,	1	

REFERENCE SYMBOL	STOCK NUMBER			INCIDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
J1102	F12013	CC	26-4401-16S 338 02660	5	2-15/32 LG X 1-1/4 W X 7/8 H APPROX O/A EXCL PROTRUDING TERMS, RECT SHAPE, CRES PASS FIN, DIALLYL PHTHALATE BODY, MTS BY TWO 1/8 DIA HOLES SPD 2-1/8 C TO C, FLOATING MTG BUSHING, GOLD PLT CONTACTS	1
			G 205654-2 64959	5	CLAMP, ELECTRICAL THERMOPLASTIC NYLON .045 THK, FUNGUS PROOF, SCR TYPE, .720 LG X 3/8 W X .277 H O/A, MTD BY ONE .173 DIA HOLE	1
	F12015	XB 8850	G 210819 64959 26-4501-16P 338 02660	5	CONNECTOR, PLUG 16 NI SIL MALE CONT, FLAT POL STRAIGHT TYPE 2-21/32 APPROX LG X 1-1/4 W X 1-23/32 H O/A, CRES BODY, RECT SHAPE, LOCKING TYPE, DIALLYL PHTHALATE INSERT, 7/16 DIA CABLE OPENING, ACCOMMODATES 18 AWG WIRE	1
	F1202	CA 8850	G 210804 64959 26-4401-24S 338 02660	5	CONNECTOR, RECEPTACLE 24 FEMALE CONT, FLT POLARIZED STGHT TYPE 3-7/32 LG X 1-1/4 W MAX X 7/8 H APPROX O/A EXCL PROTRUDING TERMS, RECT SHAPE, CRES PLATE PASS FIN, DIALLYL PHTHALATE BODY, MTS BY TWO 1/8 DIA HOLES SPD 2-7/8 C TO C, EASY DISCONNECT FLOATING MTG, BUSHINGS GOLD PL CONT	1
	F1203		G 234558 64959	5	PANEL, MARKED AL ALY, ALKALI ETCH FIN, 16-3/4 LG X 9-3/8 W X 1-5/8 D APPROX O/A, C/O 19 SPLINE NUTS 2 EYELETS, 1 BRKT AND PANEL, DRILLED FOR MTG APPARATUS	1
	F12033	AA	G 234910 64959	5	WIRING HARNESS	1
	F12035	CC 8880	BA 98263-5	6	TERMINAL, LUG	5

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	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F1204	7CWX		64959	5	RD TONGUE END, SQUEEZE GRIP TYPE, HOT TINNED FIN, 14 AWG WIRE SIZE ACCOMMODATED, 11/16 LG X 23/64 W X 7/32 H X .032 THK O/A, ONE .218 DIA HOLE ON ONE END	1
			G 234553	5	RESISTOR-CAPACITOR ASSEMBLY, C/O TERM BOARD MTG 29 RESISTORS AND 6 CAPACITORS ONE SIDE, 9-5/8 LG X 3-7/16 W X 3/4 THK APPROX O/A	2
F1205	CC		BA 10013-22	6	INSULATOR, WASHER PHENOL FIBRE, NAT COLOR, WAX IMPREGNATED, 5/32 ID X 5/8 OD X 1/16 THK O/A	1
			64959	6	TERMINAL BOARD, MARKED C/O THERMO SETTING PLSTC BOARD MTG 50 TERMINALS, 9-5/8 LG X 3-7/16 W X 7/16 THK APPROX O/A	1
F1206	XA	098000-7571	RC20GF106J	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 10 MEGOHMS P/M 5%	1
			MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 1 W, 180,000 OHMS P/M 5%	1
F1207	CA	128000-6295	RC32GF184J	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 220 OHMS, P/M 5%	1
			MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 220 OHMS, P/M 5%	1
F1208	XA	098000-2591	RC20GF221J	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 220 OHMS, P/M 5%	1
			MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 220 OHMS, P/M 5%	1
F1209	XA	377500-1134	GA 50508C14R7	6	RESISTOR, FIXED FILM, 1/4 W, 14.7 OHMS, P/M 5%,	2
			64959	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 470,000 OHMS, P/M 5%	1
F1210	CA	098000-6191	RC20GF474J	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 470,000 OHMS, P/M 5%	1
			MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 270,000 OHMS, P/M 5%	1
F1211	XA	098000-5851	RC20GF274J	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 270,000 OHMS, P/M 5%	1
			MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 270,000 OHMS, P/M 5%	1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER			INDEXT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER				
R1114	CA	F1212	3350	146000-4877	6	RESISTOR, FIXED COMPOSITION, 2 W, 33,000 OHMS P/M 5%	1
R1115	CA	F1213	3350	128000-5795	6	RESISTOR, FIXED COMPOSITION, 1 W, 68,000 OHMS, P/M 5%	1
R1116	CA	F1214	3350	098000-2671	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 270 OHMS, P/M 5%	1
R1117	XB	F12145	3350	098000-5291	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 2200 OHMS, P/M 2%, FILM, 1/2 W, 2200 OHMS, P/M 2%,	1
R1118	CC	F1215	3350	380500-2121	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 220,000 OHMS, P/M 20%	2
R1119	CC	F1215	3350	392500-2685	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 220,000 OHMS, P/M 1%,	2
R1120	CA	F1216	3350	098000-5771	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 220,000 OHMS, P/M 20%	2
R1134	CC	F1217	3350	392500-2685	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 220,000 OHMS, P/M 1%,	2
R1135	CC	F1217	3350	392500-2685	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 220,000 OHMS, P/M 1%,	2
R1161	CA	F1218	3350	146000-3977	6	RESISTOR, FIXED COMPOSITION, 2 W, 4700 OHMS P/M 5%	1
R1163	CA	F1219	3350	146000-4237	6	RESISTOR, FIXED COMPOSITION, 2 W, 6800 OHMS, P/M 5%	2
R1162	CA	F1219	3350	146000-4237	6	RESISTOR, FIXED COMPOSITION, 2 W, 6800 OHMS, P/M 5%	2
R1164	XA	F1220	3350	098000-5451	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 100,000 OHMS, P/M 5%	2
R1164	XB	F12205	3350	098000-5211	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 50,000 OHMS, P/M 5%	1
R1164	AB	F12207	3350	089000-4871	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 33,000 OHMS, P/M 5%	1
R1167	CC	F1221	3350	380500-3485	6	RESISTOR, FIXED	1

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	CLASS CODE	SERIAL NUMBER	PART NUMBER			
R1168	CC 3350	386700-2695	GA 50085A2612 64959	6	FILM, 10,000 OHMS P/M 1%, 1/2 W, RESISTOR, FIXED FILM, 1 W, 26,100 OHMS, P/M 1%,	1
R1133	CC 3350	377500-3575	GA 50508A1402 64959	6	RESISTOR, FIXED FILM, 1/4 W, 14,000 OHMS, P/M 1%,	1
R1165	CC 3350	380500-4641	GA 50083A1003 64959	6	RESISTOR, FIXED .1 MEG P/M 1%, 1/2 W,	1
R1174	CC 3350	380500-5975	GA 50083A4753 64959	6	RESISTOR, FIXED FILM, 475,000 OHMS P/M 1%, 1/2 W,	1
R1170	XA 3350	098000-5211	RC20GF563J MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 56,000 OHMS P/M 5%, 1/2 W	1
R1170	AA		RC20GF392J MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 3900 OHMS, P/M 5%, 1/2 W	1
R1122	XA 3350	457000-77794	RB17BE72002C MIL-R-93A	6	RESISTOR, FIXED WW, 75 W, 800,000 OHMS, P/M .75%	9 1
R1123	XA 3350	449000-5595	RB15BE18002C MIL-R-93A	6	RESISTOR, FIXED WW, 75 W, 180,000 OHMS, P/M .75%	1
R1123	AA		RB15E19002C	6	RESISTOR, FIXED WW 75 W, 190,000 OHMS, P/M .75%	1
CR1101 CR1102	CA 5960	284-5836	1N126 MIL-E-1B	6	RECTIFIER, CRYSTAL RECTIFYING, GERMANIUM, 1/2 LG X 0.236 DIA O/A, EXCL TERM, 2 RADIAL WIRE LEAD TERMS	2
CL1102 CL1104	CA 3330	057253136	GA 51143L26 64959	6	CAPACITOR, FIXED PAPER DIELECTRIC, 1 SECT .22 MMF, 300 VDC, 600 VDC BET TERMS, 1-13/32 LG X .578 DIA,	2

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER			INQENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER				
C1103	XA	3330	057253138	GA 51143L33 64959	6	20 AWG LEAD WIRE X 1-5/8 LG EA END	1
						CAPACITOR, FIXED PAPER DIELECTRIC, 1 SECT, .01 MF 300 VDC, 600 VDC BETWEEN TERMS, 1-13/32 LG X .416 DIA 20 AWG LEAD WIRE 1-5/8 LG EA END	
C1120	CA	3330	057253137	GA 51143L30 64959	6	CAPACITOR, FIXED PAPER DIELECTRIC, 1 SECT 400 VDCW, .33 MF, P/M 20%, HERMETICALLY SEALED METAL CASE, 1-21/32 LG X .686 DIA EXCL TERM, 2 WIRE LEAD TERM	1
C1122	XA	3330	056200882	CM15D200J MIL-C-5A	6	CAPACITOR, FIXED MICA DIELECTRIC, 20 MMF, 300 VDCW, P/M 5%	1
C1122	XA	3330	056200407	CM15C100J MIL-C-5A	6	CAPACITOR, FIXED MICA DIELECTRIC, 10 MMF, P/M 5%, 300 VDCW	1
C1122	CC			CM35C512J MIL-C-5A	6	CAPACITOR, FIXED MICA DIELECTRIC, 5100 MMF, P/M 10%, 500 VDCW	1
R1117	CC			GA 50084C6812 64959	6	RESISTOR, FIXED FILM, 68,100 OHMS, RESISTANT	1
F1233	7CWX			G 234550 64959	5	RESISTOR-CAPACITOR ASSEMBLY, C/O TERM BOARD MTG 13 RESISTORS AND 4 CAPACITORS ONE SIDE, 7-3/8 LG X 2-1/4 W X 3/4 THK APPROX O/A	1
F1234	8880			G 234549 64959	6	TERMINAL BOARD, MARKED C/O THERMOSETTING PLSTIC BOARD MTG 32 TERMS AND 4 SPACERS, 7-3/8 LG X 2-1/4 W X 7/16 THK APPROX O/A	1

REFERENCE SYMBOL	STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.	
	CLASS CODE	SERIAL NUMBER	PART NUMBER				
R1151	CC	3350	386700-3227	GA 50085B1783 64959	6	RESISTOR, FIXED FILM, 1 W, 178,000 OHMS P/M 2%,	1
R1152	CC	3350	386700-2951	GA 50085B5112 64959	6	RESISTOR, FIXED FILM, 1 W, 51,100 OHMS P/M 2%,	1
R1154 R1159	CA	3350	098000-6351	RC20GF684J MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 680,000 OHMS, P/M 5%	2
R1155	CC	3350	380500-2161	GA 50083B3161 64959	6	RESISTOR, FIXED FILM, 1/2 W, 3160 OHMS, P/M 2%,	1
R1156 R1158	CA	3350	098000-6431	RC20GF824J MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 820,000 OHMS P/M 5%	2
R1157	CC	3350	146000-5137	RC42GF473J MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 2 W, 47,000 OHMS P/M 5%	1
R1160	CA	3350	098000-3331	RC20GF102J MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 1000 OHMS P/M 20%	1
R1166	CC	3350	386700-3178	GA 50085C1203 64959	6	RESISTOR, FIXED FILM, 1 W, 120,000 OHMS, P/M 5%,	1
R1169	CC	3350	386700-2695	GA 50085A2612 64959	6	RESISTOR, FIXED FILM, 1 W, 26,100 OHMS, P/M 1%,	1
R1172	CA	3350	098000-6191	RC20GF474J MIL-R-11A	6	RESISTOR, FIXED COMPOSITION, 1/2 W, .47 MEG, P/M 5%	1
R1173	CC	3350	380500-1871	GA 50083A9090 64959	6	RESISTOR, FIXED FILM, 1/2 W, 909 OHMS, P/M 1%,	1
C1116	XA	3330	376144290	CM35E103J MIL-C-5A	6	CAPACITOR, FIXED MICA-DIELECTRIC, 10,000 MMF, 300 VDCW, P/M 5%	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
C1116	F12465 XC			CM35E982 MIL-C-5A	6	CAPACITOR, FIXED MICA DIELECTRIC, 9,800 MMF, 300 V DCW, P/M 1/2%	1
C1116	F12467 AC			G 231101-3 64959	6	CAPACITOR, FIXED MICA DIELECTRIC, 9800 MMF	1
C1118	F1247 XA	3330	056200407	CM15D100J MIL-C-5	6	CAPACITOR, FIXED MICA-DIELECTRIC, 10 MMF, 300 VDCW, P/M 5%	1
C1118	F12475 CA	3330	056200407	CM15C100J MIL-R-5	6	CAPACITOR, FIXED MICA DIELECTRIC, 10 MMF, 300 VDCW, P/M 5%	1
C1119	F1248 XA	3330	056200882	CM15D200J MIL-C-5	6	CAPACITOR, FIXED MICA-DIELECTRIC, 20 MMF, 300 VDCW, P/M 5%	1
C1119	F12485 XA			CM15C200J MIL-C-5	6	CAPACITOR, FIXED MICA DIELECTRIC, 20 MMF, 300 VDCW, P/M 5,	1
C1119	F12487 AA			CM15C510J MIL-C-5A	6	CAPACITOR, FIXED MICA-DIELECTRIC, 51 MMF, 300 V DCW, P/M 5%	1
C1121	F1249 CA	3330	057253137	GA 51143L30 64959	6	CAPACITOR, FIXED PAPER DIELECTRIC, 1 SECTION, 400 VDCW, .33 MF, P/M 20%, HERMETICALLY SEALED METAL CASE, 1-21/32 LG X .686 DIA EXCL TERM, 2 WIRE LEAD TERM	1
	F1250	7CWX		G 234547 64959	5	RESISTOR-CAPACITOR ASSEMBLY, C/O TERMINAL BOARD, MTG RESISTORS AND CAPACITORS, 3-5/8 LG X 1-7/8 W X 3/4 THK APPROX O/A	1
	F1251	8880		G 234546 64959	6	TERMINAL BOARD, MARKED C/O THERMOSETTING PLSTC BOARD MTG 14 TERMS AND 3 SPACERS, 3-5/8 LG X 1-7/8 W X 7/16	1

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		SERIAL NUMBER	PART NUMBER			
R1124	CC	098000-6511	RC20GF105J	6	THK APPROX O/A	2
R1131			MIL-R-11A			
R1125	CC	392500-5151	GA 50086A5114	6	RESISTOR, FIXED COMPOSITION, 1/2 W, 1 MEG P/M 5%	2
R1132			64959			
R1127	XA	380500-5711	GA 50083B3303	6	RESISTOR, FIXED FILM, 2 W, 5.11 MEG, P/M 1%,	2
R1130			64959			
R1127	CC		GA 50083B1503	6	RESISTOR, FIXED FILM, 1/2 W, 150,000 OHMS, P/M 2%,	2
R1130			64959			
C1107	CB	376144290	CM35E103J	6	CAPACITOR, FIXED MICA DIELECTRIC, 10,000 MMF, 300 VDCW, P/M 5%	2
C1108			MIL-C-5A			
F1256	CC	793000-3278	BA 99013	5	RESISTOR, VARIABLE COMPOSITION, 50,000 OHMS, P/M 10%, 2 W, 120 DEG, MAX CONTINUOUS OPER, 3 SODR LUGS, ENCLOSED MET CASE, 1-1/16 DIA X 9/16 D O/A	1
			JLU		SLOTTED MET SHAFT 1/4 DIA X 5/8 LG FROM MTG SURFACE, JAN A TAPER, INSULATED CONTACT ARM, W/O OFF POS NORMAL TORQUE W/SHAFT LOCKING DEVICE, KNURLED LOCKNUT, BUSHING 3/8-32 X 1/2 LG, NON-TURN DEVICES LOCATED ON 17/32 RADIUS AT 3 OCLOCK AND 9 OCLOCK	
R1111	XA	793000-1323	BA 99040	5	RESISTOR, VARIABLE COMPOSITION, 100 OHMS P/M 10%, 2 W, 120 DEG MAX CONT OPER, 3 SODR LUGS, ENCLOSED MET CASE 1-1/16 DIA X 9/16 D, SLOTTED MET SHAFT, 1/4 DIA X 5/8 LG FROM MTG SURFACE, JAN A TAPER, INSULATED CONT ARM, W/O OFF	1
			JLU			

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	CLASS CODE	SERIAL NUMBER	PART NUMBER				
R1126	F1258 CA	3350 793000-3561	BA 99090 64959		5	POS, NORMAL TORQUE, W/SHAFT LOCKING DEVICE, KNURLED LOCKNUT, BUSHING 3/8-32 X 1/2 LG, NON-TURN DEVICES LOCATED ON 17/32 RADIUS AT 3 OCLOCK AND 9 OCLOCK	1
						RESISTOR, VARIABLE COMPOSITION, 5000 OHMS, P/M 10%, 2 W, 120 DEG MAX CONTINUOUS OPER, 3 SODR LUG ENCLOSED METAL CASE 1-1/16 DIA X 9/16 D O/A, SLOTTED MET SHAFT 1/4 DIA X 5/8 LG FROM MTG SURFACE, JAN A TAPER, INSULATED CONTACT ARM W/O OFF POS, NORMAL TORQUE W/SHAFT LOCKING DEVICE, KNURLED LOCKNUT, BUSHING 3/8-32 X 1/2 LG, NON-TURN DEVICES LOCATED ON 17/32 RADIUS AT 3 OCLOCK AND 9 OCLOCK	
R1129	F1259 XA	3350 793000-1323	BA 99123 64959 TYPE JJLU 01121		5	RESISTOR, VARIABLE COMPOSITION, 2 SECT, 100,000 OHMS EACH, P/M 10%, 2 W EACH SECT, 120 DEG C MAX CONT OPER, 3 SODR LUGS EACH SECT, ENCLOSED MET CASES 1-1/16 DIA X 1-1/8 D, SLOTTED MET SHAFT 1/4 DIA X 5/8 LG FROM MTG SURFACE, JAN A TAPER, INSULATED CONTACT ARMS W/O OFF POS, NORMAL TORQUE, W/SHAFT LOCKING DEVICE, KNURLED LOCKNUT, BUSHING 3/8-32 X 1/2 LG, NON TURN DEVICES LOCATED ON 17/32 RADIUS AT 3 OCLOCK AND 9 OCLOCK	1
R1129	F12595 CC		BA 99108 64959 TYPE JJLU 01121		5	RESISTOR, VARIABLE COMP, 2 SECT, 20,000 OHMS EA, P/M 10%, 2 W EA SECT, 120 DEG C MAX CONTINUOUS OPER, 3 SOLDER LUGS EA SECT, ENCLOSED METAL CASES 1-1/16 DIA X 1-1/8 D, SLOTTED METAL SHAFT 1/4 DIA X 5/8 LG FROM MTG SURFACE, JAN A TAPERS, INSULATED CONTACT	1

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		SERIAL NUMBER	PART NUMBER			
R1136 R1111	F1260	CC 3350 793000-1248	BA 99126 TYPE JLU 64959 01121	5	ARMS, W/O OFF POS, NORMAL TORQUE, BUSHING 3/8-32 X 1/2 LG, LOCKING TYPE, ONE INCH KNURL LOCKNUT, NON-TURN DEVICES LOCATED ON 17/32 RADIUS AT 3 OCLOCK AND 9 OCLOCK	2
	F12603	CC	G 205654-1 64959	5	CLAMP, ELECTRICAL THERMOPLASTIC NYLON .045 THK, FUNGUS PROOF, SCR TYPE, .720 LG X 3/8 W X .277 H O/A, MTD BY ONE .173 DIA HOLE	2
	F12605	AA	G 235406 64959	5	POINTER NI SIL .032 THK, 27/64 LG X 3/8 W X 3/32 THK O/A, .245 CTR HOLE W/5/32 LG TAB EXTENDING TO CTR BESIDE 1/32 W SLOT IN LOWER SIDE	5
	F12607	AA	G 235407 64959	5	PLATE, INDICATOR AL ALY, .020 TH5, 17/32 OD X 5/32 THK O/A, .265 ID, .136 LG TAB EXTENDING FROM ID, LINES, NUMBERS & BORDER IS PHOTO-ETCHED IN REVERSE W/BLK BACKGROUND	5
B1	F1261	XB 6400	GA 10018L2 64959	5	RESOLVER, SYNCHRO 0-100 V AC PRI, 0-100 V AC SEC, 350 CYC, CLOSED FRAME, 0.2405 DIA SHAFT, 0.719 LG	1

REFERENCE SYMBOL	STOCK NUMBER			INCIDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
B1101	F12615 CC		GA 10018L5 64959	5	FROM HOUSING, 4.842 LG X 2.250 DIA O/A, 8 TERM MTD BY 6-32 THD FIL-HD SCR 5 RESOLVER W/GOLD ALY CONT RING, INPUT RANGE 0-100 VAC, 350 CY PER SEC, TRANSFORMATION RATIO 1.00, 4.842 APPROX LG X 2-1/4 DIA O/A, .2405 DIA X .719 LG ROTOR SHAFT, EIGHT #6-32 FIL HD SCR TERM	1
Z1101	F1262 XC	6400 75459	GA 52536 64959	5	4 NETWORK PHASE CHANGING, C/O 4 COP & 4 RES, 300 TO 500 CYC, HERMETICALLY SEALED METAL CASE, RECTANGULAR SHAPED 1-1/4 LG X 3/4 W X 3-3/4 H O/A EXCL TERM & MTG STUDS, 3 SOLDER LUG TERM, MTS BY TWO 8-32 THD MTG STUDS SPD 3/4 C TO C, PROVIDES PHASE CORRECTION IN A COMPUTER COMPONENT CIRCUIT	1
Z1101	F12623 AC		G 245689 64959	5	NETWORK	1
F126231	AC		BL 38194-1 64959	6	TERMINAL, STUD C/O TERM MTG STUD & TERM STUD MELMAC INSUL MOLDING COMPOUND, 13/16 LG X .202 DIA O/A, MTS BY .112-40 THD X .156 LG, TERM STUD .281 LG	3
R1175	F126232 AC		BA 99385-2 64959 160-1-501 80294	6	RESISTOR, VARIABLE LINEAR PRECISION, WW, 1 SECT, 500 OHMS RESISTANCE, P/M 10%, P/M 0.5 TO 1.0% LINEARITY, 0.6 WATT PWR RATING, 38 DEG C AMBIENT, ROTARY MOTION SHAFT TYPE, 8100 DEG ELEC ROTATION, PLSTC CASE/W METAL COVER, MECHANICAL MOTION SHAFT DATA - 9000 DEG ROTATION, O/A TORQUE DATA -	1

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		SERIAL NUMBER	PART NUMBER			
F126233	AC		G 245684	6	APPROX .5 OZ.-IN. STARTING, 1-1/4 D X 1/4 W X 5/16 H, 1/8 DIA SHAFT, .040 EXPOSED LENGTH, RD, SLOTTED, TERM TYPE, 3 WIRE LEAD, TWO .090 DIA MTG HOLES SPD 1 IN C TO C, OPERATING TEMP RANGE -54 DEG TO 177 DEG C, COLOR CODED TEFLON INS WIRE LEADS	1
F126234	AC		G 245687	6	COVER AL ALY, ANOD FIN, BRACKET, MARKED CRES, 2-27/64 LG X 1-11/16 W X 59/64 H O/A, MTS BY TWO .164-32 NC-2B MTG HOLES SPD .750 C TO C	1
F126235	AC		GA 51143L24	6	CAPACITOR PAPER DIELECTRIC, 200 VDCW, .1 MF, P/M 5%	1
F126236	AC		GA 51223-L7	6	CAPACITOR .033 MF	1
F12625	AB		G 245321	5	CHANNEL, SUPPORT AL ALY, ANOD FIN, 10-41/64 IN LG X 1 IN W X 1/2 IN H O/A, FIVE .199 DIA HOLES AND TWO .166 DIA HOLES IRREGULARLY SPD	1
F1263		3340	GA 52710	5	TRANSFORMER, AUDIO FREQUENCY	1
F1264	CA	3350	GA 52704	5	THERMISTOR WE21A RESISTANCE SENSITIVE TO CURRENT & TEMPERATURE VARIATIONS, AC-DC, 1-1/2 LG X .294 DIA EXCL TERM, TERM MTD, HERMETICALLY SEALED	1
F1265	CA	8850	TS102C01	5	SOCKET, ELECTRON TUBE	3

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REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		IDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
XV1102 XV1105			JAN-S-28A		CERAMIC BODY, OVAL SHAPE, MINIATURE, 7 SIL PL COP CONT W/SHOCK SHIELD & CTR SHIELD .180 OD, 1-1/8 LG X .900 W X 1-3/16 H O/A INCL TERM, ONE PIECE MTG SADDLE W/TWO 1/8 DIA HOLES ON 7/8 MTG CTRS	5
XV1103 XV1104 XV1106 XV1107 XV1108	CA 8850	896725	TS103C01 JAN-S-28A	5	SOCKET, ELECTRON TUBE CERAMIC BODY, OVAL SHAPE, NOVAL, 9 SIL PL COP CONT W/SOLDER LUG TERM, 1-3/8 LG X .940 W X 1-3/16 H O/A, ONE PIECE MTG SADDLE W/TWO 1/8 DIA HOLES 1-1/8 C TO C, W/CTR SHIELD	3
F1267	CB 3370	774000-1955	TS102U02 JAN-S-28A	5	SHIELD, TUBE CYL SHAPE, COP OR BRS, NI PL, 1-3/4 H X .838 OD APPROX O/A EXCL FLG, W/INTERNAL SPG, BAYONET MTG TYPE, TOP W/1/2 DIA HOLE, SALT SPRAY CORR RES	2
F1268	CA 3370	747000-2185	TS103U02 JAN-S-28A	5	SHIELD, ELECTRON TUBE CYLINDRICAL SHAPE, COP OR BRS, NI PL, 1-15/16 H X .978 OD APPROX O/A EXCLUDING FLANGE, INTERNAL SPG, BAYONET MTG TYPE, TOP W/19/32 DIA HOLE, SALT SPRAY CORR RESISTANT	3
F1269	CA 3370	774000-2165	TS103U01 JAN-S-28A	5	SHIELD, TUBE CYL SHAPE, COP OR BRS, NI PL 1-1/2 H X .978 OD APPROX O/A EXCL FLG W/INTERNAL SPG, BAYONET MTG TYPE, TOP W/19/32 DIA HOLE, SALT SPRAY CORR RES	2
F1270	CA 3350	457000-69846	RB17E39791B MIL-R-93	5	RESISTOR, FIXED WM, 50 W, 397,900 OHMS, P/M .10%	3
F1271	XA 3350	457000-76525	RB17E45472B	5	RESISTOR, FIXED	

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	CLASS CODE	SERIAL NUMBER	PART NUMBER			
R1148			MIL-R-93		WW, 50 W, 454,700 OHMS, P/M .10%	
R1139	CB	457000-69975	RB17E45471B	5	RESISTOR, FIXED	2
R1140			MIL-R-93		WW, .50 W, 45,470 OHMS, P/M .10%	
R1145	CA	457000-	RB17E31832B	5	RESISTOR, FIXED	2
R1146			MIL-R-93		WW, .50 W, 318,300 OHMS P/M .10% 759543	
R1141	XA	3350	RB17E79582B	5	RESISTOR, FIXED	1
R1142			MIL-R-93		WW, 50 W, 795,800 OHMS, P/M .10%	
R1141	AA	457000-73338	RB17E79581B	5	RESISTOR, FIXED	2
R1142			MIL-R-93A		WW, 50 W, 79,580 OHMS, P/M .10%	
R1143	CA	457000-74557	RB17E15922B	5	RESISTOR, FIXED	2
R1144			MIL-R-93		WW, 50 W, 159,200 OHMS, P/M .10%	
	XA				NOT USED	
	XA				NOT USED	
R1149	CA	457000-6858	RB17E18721B	5	RESISTOR, FIXED	2
R1150			MIL-R-93		WW, .50 W, 18,720 OHMS P/M .10%	
	XA				NOT USED	
R1101	XA	457000-76593	RB18E46282B	5	RESISTOR, FIXED	1
			MIL-R-93		WW, 50 W, 462,800 OHMS, P/M .10%	
R1101	XA	457000765635	RB17E44502C	5	RESISTOR, FIXED	1
			MIL-R-93A		WW, 50 W, 445,000 OHMS, P/M .25%	
R1103	XA	449000-5325	RB15E10482C	5	RESISTOR, FIXED	1
			MIL-R-93		WW, 50 W, 104,800 OHMS, P/M .25%	
R1103	XA	449000-5581	RB15E16672C	5	RESISTOR, FIXED	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R1105	F1282	XA 3350		MIL-R-93A RB18E41102C MIL-R-93	5	WW, 50 W, 166,700 OHMS, P/M .25% RESISTOR, FIXED WW, 50 W, 345,000 OHMS, P/M .10%	1
R1105	F12825	XA 3350	451000-4619	RB16E34502C MIL-R-93A	5	RESISTOR, FIXED WW, 50 W, 345,000 OHMS, P/M .25%	1
R1122	F12827	AA		RB17E72002C MIL-R-93A	5	RESISTOR, FIXED WW, 50 W, 720,000 OHMS, P/M .25%	1
C1105	F1283	CC 3330	316776402	CP69B5EF254V MIL-C-25	5	CAPACITOR, FIXED PAPER, DIELECTRIC, DIRECT CURRENT, HERMETICALLY SEALED, 250,000 MMF, 1000 VDCW P/M 20%	1
C1123	F12833	CC 3330	055725208	GA 52151 64959	5	CAPACITOR ELECTROLYTIC, 1 SECT, 250 MF, 10 VDCW, -55 DEG C PLUG 85 DEG C, SILVER CASE, 39/64 DIA X 53/64 LG O/A, 2 WIRE LEAD TERM MTD, PLUS 20% MINUS 15% AT 100 CYCLES & 25 DEG C	1
C1103	F12835	CC 3330	057253138	GA 51143L33 64959	5	CAPACITOR PAPER DIELECTRIC, 1 SECT, .1 MF, 300 VDC, 600 VDC BET TERMS, 1-13/32 LG X .416 DIA 20 AWG LEAD WIRE 1-5/8 LG EA END	1
C1117	F1284	XA				NOT USED	
C1117	F12845	CA 3330	313977576	CT1C150 JAN-C-92	5	CAPACITOR, VARIABLE AIR-DIELECTRIC, 9 TO 143 MMF, 850 VDC	1
C1109 C1110 C1111	F1285	XB 3330	376144290	CM35E103J MIL-C-5	5	CAPACITOR, FIXED MICA-DIELECTRIC, 10,000 MMF, 300 VDCW, P/M 5%	7

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
C1112							
C1113							
C1114							
C1115							
C1109	F12852	CB		G 231101-4	5	CAPACITOR, FIXED	7
C1110				64959		MICA DIELECTRIC, .01 MF	
C1111							
C1112							
C1113							
C1114							
C1115							
C1115	F12853	XB		G 231101-3	5	CAPACITOR, FIXED	1
				64959		MICA DIELECTRIC, 9800 MMF	
C1115	F12855	XA	3330	CM35E982	5	CAPACITOR, FIXED	1
				MIL-C-5		9800 MMF P/M 1/2%, MICA DIELECTRIC, 300 VDCW	
C1106	F1286	CA	3330	CP69B1EF105V	5	CAPACITOR, FIXED	1
						PAPER DIELECTRIC, DIRECT CURRENT, HERMETICALLY SEALED, 1 MF, 600 VDCW, P/M 20%	
R1113	F12863	XC		RC208F274K	5	RESISTOR, FIXED	1
				MIL-R-11A		COMPOSITION, 270,000 OHMS, P/M 10%, 1/2 W	
R1113	F112864	AC	3350	RC20GF274J	5	RESISTOR, FIXED	1
				MIL-C-11A		COMPOSITION, 270,000 OHMS, P/M 5%, 1/2 W	
R1109	F12865	XC		RC208F221J	5	RESISTOR, FIXED	1
				MIL-R-11A		COMPOSITION, 220 OHMS P/M 5%, 1/2 W	
R1109	F12866	AC		RC20GF221J	5	RESISTOR, FIXED	1
				MIL-C-11A		COMPOSITION, 220 OHMS, P/M 5%, 1/2 W	

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		SERIAL NUMBER	PART NUMBER				
R1110	CC	F12867	3350	377500-1134	GA 50508C14R7 64959	5 RESISTOR, FIXED 14.7 OHMS, 1/4 W, P/M 5%	1
V1108	CA	F1287	3370		5814WA MIL-E-1B	5 TUBE, ELECTRON RECEIVING, TWIN TRIODE, 2-3/16 H X 7/8 DIA O/A, MINIATURE BUTTON 9 PIN BASE	1
V1107 V1106	CA	F1288	3370	316000-5675	5670WA MIL-E-1B	5 TUBE, ELECTRON RELIABLE MIN TWIN TRIODE, RECEIVING, 1-3/4 H X 7/8 DIA EXCL PINS, 9 PIN BASE	2
V1105 V1101	CA	F1289	3370	286000-6287	6AU6WA MIL-E-1B	5 TUBE, ELECTRON MIN TYPE 7 PIN, SHARP CUT-OFF PENTODE WIDE BAND AMP, 1-7/8 H MAX EXCL PINS X 3/4 DIA MAX	2
V1102	CA	F1290	3370	386000-6185	6AH6 MIL-E-1B	5 TUBE, ELECTRON MIN TYPE 7 PIN, PENTODE POWER AMP, 1-7/8 H MAX EXCL PINS X 3/4 DIA MAX	1
V1104	CA	F1291	3370	316000-5825	5751WA MIL-E-1B	5 TUBE, ELECTRON MINIATURE, RECEIVING, TWIN TRIODE, 2-3/16 H X 7/8 DIA O/A, MIN BUTTON 9 PIN BASE	1
V1103	CA	F1292	3370		5755WA MIL-E-1B	5 TUBE, ELECTRON TWIN TRIODE, RECEIVING, 2-3/16 H X 7/8 DIA O/A MINIATURE BUTTON 9 PIN BASE	1
	CC	F12923			BA 98438 64959	5 LOCKNUT, KNURLED BRS, NI PL, 11/16 DIA X 3/8 LG, 3/8-32 NC-2B THD, NI PL FIN, RAISED DIAMOND KNURLING, DESIGNED FOR USE/W COLLET TYPE 3/8-32 NEF-2A BUSHING TO LOCK 1/4 IN. DIA SHAFTS	1
	CC	F12924			G 205654-4	4 CLAMP, ELECTRICAL	2

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REFERENCE SYMBOL	STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F12925	CA		64959		THERMOPLASTIC NYLON .045 THK, FUNGUS PROOF, SCR TYPE, .900 LG X 3/8 W X .465 H, 3/16 FROM CTR TO OPEN END OF CLAMP, MTD BY ONE .173 DIA HOLE, HOLDS 3/8 DIA MATL	1
			G 235236 64959	4	LABEL, INSTRUCTION BLACK, DULL FIN AL FOIL, 3 LG X 1 W, LETTERS TO BE NATURAL AL, SPD 3/16 FROM SIDES, 3/16 FROM TOP & BOT	
F12926	CC	146404-2314	G 205654-7 64959	4	CLAMP, ELECTRICAL THERMOPLASTIC NYLON .045 THK, FUNGUS PROOF, SCR TYPE, 1.120 LG X 3/8 W X .683 H O/A, HOLDS 19/32 DIA MATL, MTD BY ONE .173 DIA HOLE 3/16 FROM CTR TO OPEN END OF CLAMP	4
			G 226898 64959	4	WASHER, FLAT CRES BAR, 9/16 OD X .219 ID X 1/16 THK O/A	2
F12927	AA		G 226899 64959	4	FASTENER PLATE CRES BAR, 1 LG X 7/16 W X 1/4 THK O/A, .243 DIA C-BORE & .322 DIA .125 D HOLE ONE END	2
			G 245459 64959	4	CLAMP, ELECTRICAL NEOPRENE INSULATION, CRES SHEET CLAMP .064 THK, 3-31/32 IN LG X 5/8 IN W X .688 IN H O/A, ONE .199 DIA CTR HOLE	1
F12929	AB		G 234312 64959	3	CABINET, ELECTRICAL EQUIPMENT, AL ALY SHT & ANGLE, SPOT WELD CONST, 20-9/16 LG X 19-1/16 W X 11-3/16 D O/A, ANOD PLUS LIGHT GRAY ENAMEL FIN, MKD GS 16744 TEST EQUIP, AMP SUBASSY CASE 1	1

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		SERIAL NUMBER	PART NUMBER			
F12935	CC		BA 10047-192 64959	4	OF 2 CASES BUSHING, PLAIN SLEEVE STL CARBON BAR, ZINC PL FIN, 3/16 ID X 1 OD X 1/8 THK O/A	4
F1294	CA		BL 90481 64959	4	FOOT, MOUNTING C/O SCR ASSEM THRU NI PL BODY, & CUSHION, 15/16 DIA X 1/2 H EXCL SCR	4
F1295	CA		G 231415 64959 13435, SB-15 71294	4	BUMPER SYN RUB, 1 OD X 5/8 H O/A W/5/16 DIA X 7/16 D RECESS, ONE 3/16 DIA THRU HOLE INCLUDES ONE 1/2 OD X 3/16 ID X 3/64 THK STL WASHER IN RECESS	4
F1296	XA		G 650143-3 64959	4	INSERT, SCREW THREAD CRES, 6-32 INTERNAL THD, .178 OD X .260 LG O/A, NOTCHED	8
F12965	AA		G 650145-3 64959	4	NUT, SELF LOCKING	8
F1297	CA		G 234316 64959	4	CABINET, SUPPORT C/O AL ALY FRAME SUPPORT, STL MTG SUPPORT SPRING, SHAFT, 2 SPACERS & RETAINING RING, 12-1/16 LG X 1-3/8 W X 7 H APPROX O/A	1
F1298	CA		G 205594-3 64959 5131-18 SZD 79136	5	RETAINER, RING EXTERNAL STL, ZN PL, .142 ID X .335 OD X .025 THK O/A	1
F1299	CA		G 234317 64959	5	SHAFT CRES, UNFIN, 3/16 DIA X 11-29/32 LG O/A, W/1/32 X 45 DEG CHAMFER EA END PLUS TWO	1

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REFERENCE SYMBOL	STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F1300	CA		G 234318 64959	5	.050 W X .020 DEEP GROOVES SPD 5/32 FROM ENDS	1
F1301	CA		G 234319 64959	5	SPRING CRES WIRE .072 DIA, TWO SECT OF 43 COILS EA, 9-15/64 LG X 1.322 W X 1.072 D O/A	1
F1302	CA		G 234578 64959	5	SUPPORT, MOUNTING .063 THK CRES, 11-1/2 LG X 1-3/8 W X 1/2 H O/A, TWO .218 DIA HOLES CTR IN BEND ON EA END	2
F1303	CA		G 234541 64959	5	SPACER CRES, UNFIN, 5/16 OD, 7/32 ID X 1/8 H O/A	1
F1304	CA		G 231416 64959 8260, SB-515 71294	6	SUPPORT, FRAME AL ALY, CHROMIC ACID ANODIZED, 11 LG X 6-3/4 W X 1/2 D O/A, WELDED CONST, W/FOUR RUB BUMPERS ON LEGS, FOUR .213 DIA HOLES SPD 3/16 FROM TOP	4
F1305	CA		G 234313 64959	3	BUMPER SYN RUB, 1/2 OD X 1/4 H O/A W/1/4 DIA X 1/8 D RECESS, W/1/8 DIA THRU HOLE, INCLUDES ONE .350 OD X .155 ID X .025 THK STL WASHER	1
F1306	CA		BL 90900-1	4	COVER AL ALY SH AND ANGLE, SPOT WELD AND RIVET CONST, W/INTERNAL PANEL HINGE AND PIN LOCK MTD, 19-3/4 LG X 11-3/8 W X 4-1/2 D O/A, ANOD PLUS LIGHT GREY ENAMEL FIN MKD GS-16744 TEST EQUIP, AMP SUBASSY CASE 1 OF 2 CASES	1
					HANDLE	

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		INDET	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
F1307	CA 7CAC		64959	3	AL ALY ROD, .250 DIA U-SHAPE 5.250 LG, 1-1/8 D, W/.164-32 TAP HOLE X 7/16 D EA END CHROMATE PLUS GRAY SATIN FIN	1
			G 234790	3	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, 3 WIRES 9 FT LG MKD G-234790	
F1308	CA		BA 10144-44	4	WIRE, MARKER	1
			64959	4	POLYVINYL PLSTC TUBING, 1 LG X .4375 ID, .025 THK WALL	
F1309	CA 8850	247225	G 205824-1	4	CONNECTOR, PLUG	1
			64959	4	3 FEMALE CONT, 1 RD, 2 CURVED, POL STRAIGHT TYPE, 2-7/32 LG X 1-23/64 DIA O/A, CYLINDRICAL SHAPE, STL BODY, LKG TYPE, BLK PHEN INSERT, 32/64 DIA CABLE OPENING	
			74545	4		
F1310	CA 8850	248744	BA 717203	4	CONNECTOR, PLUG	1
			64959	4	CRES SH .063 THK, 11-1/2 LG X 1-3/8 W X 1/2 H O/A, SEVEN .228 DIA MTG HOLES IN BASE, TWO .218 DIA HOLES EA END MKD G-234319	
F1311	CA 7CAC		G 234791	3	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL	1
			64959	3		
F1312	CA		BA 10144-16	4	WIRE, MARKER	1
			64959	4	POLYVINYL PLSTC TUBING, 1-1/2 LG X .208 ID, .020 THK WALL	
F1313	CA 8850	830510	G 231472-1	4	PLUG, TIP	1
			64959	4	STD PHONE TIP CONT ELEMENT W/BLK PLSTC INSULATION, STRAIGHT TYPE, 1-25/32 LG O/A, 1/4 DIA X 1 LG INSULATION, W/7/64 DIA	

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		SERIAL NUMBER	PART NUMBER			
F1314	CA	8850 830507	G 231472-2 64959	4	CABLE OPENING, 10-32 THD NI PL BRS BODY PLUG, TIP STD PHONE TIP CONT ELEMENT W/RED PLSTC INSULATION, STRAIGHT TYPE, 1-25/32 LG O/A, 1/4 DIA X 1 LG INSULATION W/7/64 DIA CABLE OPENING, 10-32 THD NI PL BRS BODY	1
F1315	CA		G 235085 64959	4	BUMPER, RUBBER RUBBER COMP, 7/16 DIA X 5/8 LG O/A, W/TWO .125 DIA HOLES ONE END AND 1/4 DIA X 1/2 DEEP HOLE OPP END	1
F1316	CC	8850 827328	JAN-PJ-068	4	PLUG, TELEPHONE	1
F1317	AA		G 235411 64959	3	SHIM, SPECIAL PHOS BRZ STRIP .020 THK, 2-7/32 LG X 1-11/16 W O/A, 30 DEG BEND 3/8 FROM NARROW END, 3-1/8 CTR HOLE W/SLOTTED TOP TO FORM KEYED HOLE 11/16 LG	1

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REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER	PART NUMBER			
F2000	7CAC		GS 17470	64959	2	CASE, TEST ADAPTER AL ALY SHT .064 THK CASE, C/O FRAME CASE & COVER, BRKTS, HANDLE, FSTNR, HINGE, SPACERS, GASKETS & HDW WELD CONSTRUCTION, 23.815 LG X 16.815 W EXCL HANDLE & HINGE X 7-5/16 D EXCL MTG FEET	1
F2001	CA 6700	184660	BL 90480	64959	3	FASTENER STL, NI PL 2-3/8 LG X 7/8 W X 1/2 THK O/A, TWO 1/8 DIA MTG HOLES, 17/32 C TO C IN STRIKER PL, TWO 9/64 DIA MTG HOLES C TO C IN HASP	2
F2002	7CWX		G 226466-10	64959	3	PLATE, IDENTIFICATION AL ALY PLT, .032 THK ETCHED FIN 3 LG X 1 W O/A, MTS BY FOUR .093 DIA HOLES ON 2.750 X .750 CTRS SPL MKGS GS-17470, CASE, TEST ADAPTER	1
F2003	XA 7CWX		G 234342	64959	3	SPACER .091 THK AL ALY, 1-9/16 LG X 5/8 W O/A	1
F2004	XA 7CWX		G 234343	64959	3	SPACER .091 THK AL ALY, 22-7/16 LG X 21/32 W O/A	1
F2005	CA 7CWX	BL90423	BL 90423	64959	3	HANDLE ASSEMBLY AL ALY, MED GR ENAMEL FIN, C/O HANDLE & BRKT ASSY, RIVET CONST, 5-7/8 LG X 2-15/16 W X 13/16 THK APPROX O/A, MTS BY TWO #10-32 X 5/8 LG SCRS SPD 4.946 C TO C	1
F2006	CA 7CWX		BL 90481	64959	3	FOOT MOUNTING C/O SCR ASSEM THRU NI PL BODY, & CUSHION 15/16 DIA X 1/2 H EXCL SCR	4

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STOCK NUMBER		PART NUMBER		INDENT	DESCRIPTION	
F3001		GS 17469	64959	2	SWITCH BOX	4
					C/O THREE ROTARY SWITCHES, KNOB CONTROLLED MTD IN AL BOX W/RESISTOR ASSEMBLIES, CONNECTOR RECEPTACLES, INSULATORS AND ATTACHING HARDWARE, PLUG IN TYPE BOX W/CONNECTOR IN REAR 8 LG X 5-3/4 W X 6-3/8 D APPROX O/A	
F3002		BA 10069-26	64959	3	BUSHING, PLAIN SLEEVE	4
					ALUM, ALKALI DIP, 1/4 OD X 1/16 THK, 1/8 ID CTR HOLE	
F3003		BA 10069-28	64959	3	BUSHING, PLAIN SLEEVE	4
					ALUM, ALKALI DIP, 1/4 OD X 1/4 THK, 1/8 ID CTR HOLE	
F3004		BO 94382-6	64959	3	KNOB	1
					BLK PEHNOLIC, 1-1/8 DIA X 13/16 D O/A, SCALLOPED EDGE, 31/32 OD BASE X 19/32 ID, C/O MOULDED INSERT & TWO SCRS	
F3005		BO 94383-11	64959	3	KNOB	2
					BLK BAKELITE, 1-5/8 DIA X 15/16 D O/A, SCALLOPED EDGE, 1-1/8 OD BASE X 3/4 ID, C/O INSERT & TWO SET SCRS	
F3005		BA 98203-6	64959	3	PIN, SPRING	4
					CRES, C-43 TO C-52 ROCKWELL HARDNESS, NOM OD 0.062 X 1/562 LG O/A, .012 WALL THICKNESS & .065 MAX HOLE SIZE	
F30055		BA 98327-4	64959	3	TERMINAL LUG	1
		122 NO. 6	79963		RD TONGUE END TYPE, W/TONGUES AT 90 DEG TO EA OTHER & EA BENT 30 DEG, 11/16 APPROX SQ X 11/64 THK O/A, TINNED FIN BRs, TWO 1/64 DIA HOLES FOR SOLDER CONN, TAKES #13	

REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
P1302 P1306	F3006 CC	8850	618660	BA 98456 64959 26-4100-32P-334 02660	3	AWG SINGLE, 0.144 DIA CTR MTG HOLE CONNECTOR, RECEPTACLE 32 MALE CONT RATED 5 AMP AT 600 VDC, STGHT TYPE, POL, RECT DIALYL PATHALATE INSERT W/CRES MTG PL, 3-31/32 LG X 7/8 W X 31/32 H O/A, TWO 1/8 DIA MTG HOLES 3-5/8 C TO C	2
P1301 P1307	F30065 CC			BA 98466-1 64959 26-4101-32P 02660	3	CONNECTOR, RECEPTACLE 32 MALE, FLAT, POL, STR TYPE, 3-31/32 LG X 1-1/64 W X 31/32 H O/A, RATED AT 5 AMPS, 750 VDC, RECT SHAPE, DIALYL PATHALATE W/SST MTG PL, TWO .125 DIA HOLES SPD 3.625 C TO C	2
F3007				G 650145-1 64959	3	NUT, SELF LOCKING, HEX RED NYLON & STL, CAD PL, SELF-LOCKING NYLON INSERT, HEX TYPE, .250 ACROSS FLATS X .143 THK, 4-40 NC-3B THD	4
F3008	XA					NOT USED	
F30085	CA	8880	118000-6755	G 231485-1 64959 DF-30-BC 58474	3	POST, BINDING MULTI-TYPE, W/PLUG-IN AND SCR FACILITIES, O/A DIM 41/64 X 1-5/64 LG, .190-32 X 25/32 LG MTG STEM, PHEN CAP AND BASE, BLK, MOLDED ON BRS CORE, NIC PLT HOLE FOR #12 AWG WIRE IN NECK, BASE HAS LOCATING SHLD W/INDEXING FLAT ON FIXED HALF AT R ANGLES TO WIRE HOLE IN NECK, 1/2 HEX HD CAPTIVE CAP W/5/32 DIA X 3/8 D HOLE IN STUD FOR STD 3/4 BANANA PLUG AND FLAT WASHER SURFACE FOR SPACE LUG CONN	2
F3009	CA	3360		G 231271	3	SWITCH, ROTARY	1

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REFERENCE SYMBOL	STOCK NUMBER			INCIDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F3010	CC 3360	073114774	G 234053 64959	3	3 SECTIONS, 8 POS, 3 MOVING 27 FIXED NON SHORTING CONT, 3P8T 1-5/8 LG X 1-5/16 H X 1-1/4 W, MTD BY 3/8-32 X 3/8 LG BUSH, FLATTED SHAFT 5/16 LG X 7/32 W, SOLDER LUG TERM, W/HEX NUTS & LOCKWASHER	2
F3011	CA		G 234161 64959	3	SWITCH, ROTARY 4 SECTIONS, 15 POSITIONS, SOLID SIL NON-SHORTING CONTACT CLIPS, MICALEX INSULATION & STATOR, .120 THK & CERAMIC ROTOR, 20 DEG DETENTING ANGLE, 2-5/16 LG X APPROX 2 W, .250 DIA SHAFT EXTENDING 3/4 FROM SWITCH W/HEX NUT & LOCKWASHER	1
F30115	AA		G 235459 64959	3	INSULATOR, PLATE LAMINATED THERMOSETTING PLSTC SHT 1/32 THK, 5-9/16 LG X 3-1/16 W O/A, FOUR .152 DIA MTG HOLES SPD ON 2.375 X 5.062 CTR, MKD G-234161 IN 1/8 CHARACTERS	2
F3012	CA		G 234162 64959	4	HANDLE C/O STL HANDLE W/BLOCKS, CAMS & SPACER SLEEVES, 5-1/8 LG X 1.563 APPROX H O/A	4
F3013	CA		G 234163 64959	4	CAM CRES BAR, .750 DIA X 3/16 THK O/A, .191 DIA HOLE .125 OFF CTR OF OD & .047 DIA	4
F3014	CA		G 234164 64959	4	BLOCK CRES BAR, 3/4 LG X 3/8 W X 5/16 THK O/A, TWO .164-32 TAP HOLES 5/16 D .500 C TO C ON BOTTOM, .191 DIA HOLE CENTRALLY LOCATED ON SIDE SLEEVE SPACER AL ALY ROD, ALKALI ETCH 5/16 DIA X 9/32	4

REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
F3015	CA			G 234165 64959	4	LG, .203 DIA THRU HOLE HANDLE CRES BAR .187 DIA, 5-1/8 LG X 1-3/16 W X 5/8 THK O/A, 3/16 R BEND EACH END 31/32 FROM END	2
F3016		7CWX		G 234249-9 64959	3	PLATE IDENTIFICATION AL ALY SHT .032 THK, ETCHED, 3-9/16 LG X 1-9/16 W O/A, FOUR .136 DIA MTG HOLES SPD .1250 X 3.250 C TO C, MKD GS-17469 SWITCH BOX	1
F3017		7CWX		G 234216 64959	3	PANEL FRONT MARKED AL ALY SHT .125 THK, 8 LG X 5-11/16 W O/A, EIGHT .196 DIA MTG HOLES IN SETS OF TWO SPD 5.250 X 3.875 C TO C, MKD IN 1/8 CHARACTERS	1
F3018		3350		G 234221 64959	3	RESISTOR ASSEMBLY C/O LAMINATED THERMOSETTING PLASTIC BD, INSULATION SLEEVE & RESISTORS 5-9/16 LG X 3-1/16 W X APPROX 11/16 D O/A	1
F3019		8880		G 234220 64959	4	BOARD, TERMINAL LAMINATED THERMOSETTING SHT 3/32 THK, C/O BOARD & TERMINAL STUDS, 5-9/16 LG X 3-1/16 W X APPROX 1/2 THK O/A, MKD	1
R1309	XC	3350	146000-5137	RC42BF473J JAN-R-11	4	RESISTOR, FIXED COMP, 47,000 OHMS, 2 W, P/M 5%	1
R1309	AC	3350	146000-5137	RC42GF473J MIL-R-11A	4	RESISTOR, FIXED 47,000 OHMS, 2 W, P/M 5%	1
R1308	CC			GA 50084A7503	4	RESISTOR, FIXED	1

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		SERIAL NUMBER	PART NUMBER			
R1305	CC 3350	377500-1141	GA 50508C24R9 64959	4	FILM, 3/4 W, .75 MEG, P/M 1%	1
R1304	CC 3350		GA 50508C5111 64959	4	RESISTOR, FIXED FILM, 1/4 W, 24.9 OHMS, P/M 5%,	2
R1306	CA 3350	447000-5318	D 178618B 4420 OHMS 64959	4	RESISTOR, FIXED FILM, 1/4 W, 5110 OHMS P/M 5%,	1
R1302	CA 3350	447000-4721	D 178618B 1470 OHMS 64959	4	RESISTOR, FIXED WW, 1/4 W, P/M 0.25%, 4420 OHMS	1
R1303	CA 3350	447000-41825	D 178618B 578 OHMS 64959	4	RESISTOR, FIXED WW, 1/4 W, P/M 0.25%, 1470 OHMS	1
R1301	CA 3350	454000-1551	RU3BIROJ JAN-R-184	4	RESISTOR, FIXED WW, 1/2 W, 1.0 OHMS, P/M 5%	1
R1307	CA 3350		G 234842 64959	3	WIRING HARNESS	1
F30253	XA		BA 98327-4 64959	3	TERMINAL, LUG	1
F30255	XA 8880	747000-3995	G 234247 64959	3	CASE, SWITCH BOX AL ALY CASE W/CRES BRACKETS, 6-11/16 LG X 4-3/8 W X 4-7/16 D O/A, C/O SPG, PIN, NUT, BRKT, DOORS, FRAME & PLATE	1
F3026	7CWX		BA 10091-760 64959	4	PIN, STRAIGHT, HEADED NI STEEL, CAD PL, 5/16 OD X .300 LG O/A	4
F3027						

REFERENCE SYMBOL	STOCK NUMBER			INDEXT	DESCRIPTION	UNITS PER ASST.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F3028			BA 10091-966 64959	4	SPRING, HELICAL, TORSION, MUW, CAD PL, .045 DIA, .991 LG X 5/16 W X .200 D O/A	4
F3029			G 650145-1 64959	4	NUT, SELF LOCKING RED NYLON & STL, CAD PL, SELF-LOCKING SYLON INSERT HEX TYPE, .250 ACROSS FLATS X .143 THK, 4-40 NC-38 THD	4
F3030	7CWX		G 234129 64959	4	BRACKET CRES, .032 THK, 3/4 LG X 1/4 W X .106 THK O/A, TWO .094 DIA MTG HOLES .500 C TO C, RAISED PORTION THRU CTR HAS .053 INSIDE R	6
F3031			G 234179-2 64959	4	DOOR AL ALY SHT .064 THK, ALKALI ETCH, C/O DOOR & PIN, 4 LG X 3-25/32 W X APPROX .394 THK O/A, MKD G-234179-2 IN 1/8 CHARACTERS	2
F3032			G 234133-1 64959	5	PIN CRES WIRE, SPG TEMPER, .093 DIA X 4 LG O/A	1
F3033			G 234179-7 64959	5	DOOR AL ALY SHT .064 THK, ALKALI ETCH, 3-3/4 LG X 3-25/32 W X APPROX .349 THK O/A ONE END ROLLED FOR .093 DIA PIN, ONE .140 DIA HOLE SPACED 1/2 X 1-7/8 ON OPPOSITE END FROM ROLLED EDGE	1
F3034			G 234180-1 64959	4	DOOR AL ALY SHEET .064 THK, ALKALI ETCH, C/O DOOR & PIN, 6-5/16 LG X 3-25/32 W X APPROX .349 THK O/A, MKD G-234180-1 IN 1/8 CHARACTERS	1
F3035			G 234133-2	5	PIN	1

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REFERENCE SYMBOL	STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
F3036	CA		64959		CRES WIRE, SPG TEMPER, .093 DIA X 6-5/16 LG O/A	1
			G 234180-6 64959	5	DOOR AL ALY SHEET .064 THK, ALKALI ETCH, 6-1/16 LG X 3-25/32 X APPROX .349 THK O/A, FOUR .136 DIA HOLES SPD ON 2.375 X 4.062 CTR	
F30363	AA		64959		BAR, RETAINING	2
			G 235826 64959	3	CRES BAR, .125 THK X 6 LG X 1/4 H O/A, 7 HOLES .112-40 NC-2B TAP HOLES IRREGULARLY SPD ONE SIDE	
F30365	AA		64959		PLATE	1
			G 235838 64959	3	AL ALY, ANOD AL FIN, .064 THK SH X 4-1/4 LG X 2-23/32 W, FOUR .136 DIA MTG HOLES SPD 3.625 X 1.875 C TO C	
F3037	7CWX		64959		FRAME	1
			G 234217 64959	3	AL ALY, ALKALI ETCH, 6-11/16 LG X 4-7/16 W X 4-3/8 D O/A, ANGLE CONSTRUCTION 1/2 X 1/2 & 3/4 X 3/4 RECT BOX SHAPE	
F3038	7CWX		64959		PLATE	1
			G 234243 64959	3	AL ALY SHT .064 THK, 6-1/16 LG X 4-5/16 W O/A, FOUR .125 DIA MTG HOLES SPD ON 4.687 X 3.750 CTRS	
F3039	AB		64959		KNOB, ASSEMBLY	2
			G 245422 64959	3	C/O KNOB AND DIAL	
F3040	AB	083350774	64959		KNOB	1
			B0 94383-11 64959	4	BLK BAKELITE, 1-5/8 DIA X 15/16 D O/A, SCALLOPED EDGE, 1-1/8 OD BASE X 3/4 ID, C/O INSERT & TWO SET SCRS	

REFERENCE SYMBOL	F3041 AB	STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
				G 245421 64959	4	DIAL, SCALE AL ALY SH .062 THK, BLK ENAMEL FIN, 1-7/8 OD X 3/4 ID, THREE .125 DIA HOLES ON 5/8 R SPACED AT 120 DEG INTERVALS, ENGRAVED LINE FILLED W/WH PASTE	1

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REFERENCE SYMBOL	STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FA000	7CAC		GS 17461 64959	2	ADAPTER, TEST PLUG IN TYPE BOX AND PROVIDES PLUG IN TYPE MTG FOR TESTING PACKAGE AMP, AL ALY SPOT-WELD & RIVET CONST, THREE DOORS, CONNECTORS IN REAR, 8 LG X 5-11/16 W X 5-7/8 D APPROX O/A	1
			BA 10069-28 64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/4 THK X 1/8 ID CTR HOLE	4
			BA 10069-26 64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/16 THK, 1/8 ID CTR HOLE	4
			BA 98203-6 64959 79-012-062-0562 72962	3	PIN, SPRING SPLIT TUBULAR, CRES, .562 LG X .062 OD	4
FA0035	AC 8880	747000-3995	BA 98327-4 64959 122 NO. 6 79963	3	TERMINAL LUG RD TONGUE END TYPE, W/TONGUES AT 90 DEG TO EA OTHER & EA BENT 30 DEG, 11/16 APPROX SQ X 11/64 THK O/A, TINNED FIN BRs, TWO 1/64 DIA HOLES FOR SOLDER CONN, TAKES #13 AWG SINGLE, .144 DIA CTR MTG HOLE	1
P2102 P2103 P2104 P2105 P2106	CC 8850	618660	BA 98456 64959 26-4100-32P 02660	3	CONNECTOR, RECEPTACLE 32 MALE CONT RATED 5 AMP @ 600 VDC, STIGHT TYPE, POL RECT DIALLYL PHTHALATE INSERT W/CRES MTG PLT, 3-31/32 LG X 7/8 W X 31/32 H O/A, TWO 1/8 DIA MTG HOLES 3-5/8 C TO C	5
			BA 98466-1 64959 26-4101-32P	3	CONNECTOR, RECEPTACLE 32 MALE, FLAT, POL, STR TYPE, 3-31/32 LG X 1-1/64 W X 31/32 H O/A, RATED AT 5 AMPS,	2
FA0045	CC					

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REFERENCE SYMBOL	STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASST.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FA005	7CWX		02660		750 VDC, RECT SHAPE, DIALYL PATHALATE W/SST MTG PL, TWO .125 DIA HOLES SPD C TO C	4
			G 650145-1 64959	3	NUT SELF LOCK RED NYLON & STL CAD PLT SELF LOCKING NYLON INSERT HEX TYPE, .250 ACROSS FLTS X .143 THK 4-40 NC-3B THD	4
FA0055	CC		G 234139 64959	3	INSULATOR, PLATE LAM THERMO PLSTC SH 1/32 THK, VARNISH PRETREATMENT, 3-1/4 LG X 3-1/16 W O/A W/FOUR .152 DIA MTG HOLES ON 2.750 X 2.375 CTRS, MKD G-234139	2
			G 234161 64959	3	INSULATOR, PLATE LAM THERMO PLSTC SH 1/32 THK 5-9/16 LG X 3-1/16 W O/A, FOUR .152 DIA MTG HOLES SPD ON 2.375 X 5.062 CTRS MKD G-234161	1
FA0065	AA		G 235459 64959	3	HANDLE C/O STL HANDLE W/BLOCKS, CAMS, & SPACER SLEEVES, 5-1/8 LG X 1.563 APPROX H O/A	2
			G 234162 64959	4	CAM CRES BAR, .750 DIA X 3/16 THK O/A, .191 DIA HOLE .125 OFF CTR OF OD	4
FA008	CC		G 234163 64959	4	BLOCK CRES BAR, 3/4 LG X 3/8 W X 5/16 THK O/A, TWO .164-32 TAP HOLES 5/16 D SPACED .500 C TO C ON BOT, .191 DIA HOLE CENTRALLY LOC ON SIDE	4
			G 234164 64959	4	SLEEVE, SPACER AL ALY ROD, ALKALI ETCH FIN, 5/16 DIA X	4

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REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		IDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
FA010	CC	7CWX	G 234165 64959	4	9/32 LG O/A .203 DIA HOLE THRU CTR HANDLE CRES BAR .187 DIA, 5-1/8 LG X 1-3/16 W X 5/8 THK O/A, 3/16 R BEND EA END 31/32 FROM END	2
FA011		7CWX	G 234249-1 64959	3	PLATE, IDENTIFICATION AL ALY SH, .032 THK, ETCHED, 3-9/16 LG X 1-9/16 W O/A, FOUR .136 DIA MTG HOLES SPD .1250 X 3.250 C TO C, MKD GS-17467 TEST ADAPTER	1
FA012	CA	7CWX	G 234177 64959	3	PANEL FRONT C/O PANEL, CONNECTOR AND SWITCH, AL ALY PANEL, WELD CONST, ANOD PLUS GREY ENAMEL FIN, 8 LG X 5-11/16 W X 4 DEEP O/A, MKD, ADAPTER FOR GS-15434 AMPLIFIER SUBASSY	1
FA013	CC	3360 073414689	G 231285 64959	4	SWITCH, SENSITIVE SPDT, 125/250 VAC RMS, 5 AMP NOM LOAD, 30 VDC, 4 AMP RESISTIVE LOAD, 2.5 AMP INDUCTIVE LOAD, PHEN BASIC SWITCH BODY W/CRES FRAME, 27/32 LG X 7/16 W X 1-3/16 H O/A, 1/8 DIA CRES PLUNGER TYPE ACTUATOR, 3 SOLDER LUG TERMS, MTS BY 1/4-40 X 3/8 LG THD BUSH, TWO HEX NUTS 3/32 THK X 3/8 ACROSS FLATS & ONE 7/16 DIA X 1/32 THK CRES LKG RING	1
FA014	XA		BA 98203-35 64959 79-022-094-0500 72962	4	PIN, SPRING SPLIT TUBULAR, CRES, .094 OD X 1/2 LG X .022 THK WALL, BOTH ENDS CHAMFERED	4
FA015	CA	8850 336120	BL 722564	4	CONNECTOR, RECEPTACLE	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
				64959		9 RD GOLD PL FEMALE CONT POL, STR TYPE, RECT MLD MELAMINE BODY, 1-5/16 LG X 3/8 W X 27/32 D, 1 NO 4-40 MTG STUD ON BACK IN LINE W/FEMALE GUIDE PIN ON FRONT ON 5/32 CTR FROM ONE END	1
FA016	XA			G 234151 64959	4	PLATE, BACK CRES SHT .180 THK UNFIN, 2-51/64 LG X 1-51/64 W O/A, TWO .138-32 NC-2B TAP HOLES 1/4 DEEP EACH END, MKD G-234151, S2101 J2101	1
FA017	CA			G 234414 64959	4	LABEL, INSTRUCTION LETTERS OF NATURAL AL FUTURA, DEMIBOLD, 10 PT ON BLK DULL FIN AL FOIL, .003 THK X 3-7/8 LG X 1-3/4 W O/A	1
FA0175	AA			G 234177-2 64959	4	PANEL, FRONT C/O 4 PINS, STL PLATE, & AL ALY FRONT PANEL, 8 LG X 5-11/16 W X 3-1/8 H O/A	1
FA018	CA			G 234169-3 64959	5	PANEL, FRONT AL ALY PANEL & TUBING, 8 LG X 5-11/16 W X 3-1/8 H O/A, FOUR 1-3/32 LG X 5/16 W CUTOUTS SPD 7/8 X 7/32 FROM EDGES FOR MTG HANDLES, TWO .166 DIA HOLES IN TUBING SPD .285 FROM TOP	1
FA0185	AA			BA 98203-35 64959 79-022-094-0500 72962	5	PIN, SPRING SPLIT TUBULAR, CRES .094 OD X 1/2 LG X .022 THK WALL, BOTH ENDS CHAMFERED	4
FA0187	AA			G 234151 64959	5	PLATE, BACK .180 THK CRES, 2-51/64 LG X 1-51/64 W O/A, ONE 1/4-40 TAPPED HOLE FOR MTG SWITCH,	1

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REFERENCE SYMBOL	STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FA0188	XA		G 234834 64959	3	ONE .0813 LG X 7/16 W CUTOUT W/1/8 DIA CBORE HOLE ON EA END FOR MTG CONN, ONE 6-32 X 1/4 D HOLE CTR EA END FOR MTG	1
FA0189	XA	8880	BA 98327-4 64959	4	WIRING HARNESS	1
FA019	AA		G 234242-1 64959	3	TERMINAL LUG	1
FA020	AA		BA 10091-760 64959	4	CASE, ADAPTER TEST AL ALY SH & ANGLE CONST, ALKALI ETCH FIN, C/O 3 DOORS, 1 FRAME & 1 PLATE, 4-1/2 LG X 4-7/16 W X 6-13/16 D O/A	4
FA021	AA		BA 10091-966 64959	4	PIN, STRAIGHT, HEADED NI STL, CAD PL, 5/16 OD X .300 LG O/A	4
FA022	AA		G 650145-1 64959	4	SPRING, HELICAL TORSION, MUW, CAD PL, .045 DIA, .991 LG X 5/16 W X .200 D O/A	4
FA023	AA		G 234243 64959	4	NUT, SELF LOCK RED NYLON & STL CAD PL SELF-LKG NYLON INSERT HEX TYPE, .250 ACROSS FLATS X .143 THK, 4-40 NC-3B THD	1
FA0235	CC		G 235826	3	PLATE AL ALY SHT .064 THK ALKALI ETCH FIN, 6-1/16 LG X 4-5/16 W O/A W/EIGHT .125 DIA & CSK 82 DEG TO .225 DIA HOLES, FOUR ON 3.250 X 1.250 CTRS, 2 ON 4.687 CTRS & TWO ON 4.062 CTRS, RECT HOLES 3 LG X 1 W IN CTR OF PLATE	2

REFERENCE SYMBOL		STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
FA024	AA			64959	3	CRES BAR, .125 THK X 6 LG X 1/4 H O/A, SEVEN HOLES .112-40 NC-28 TAP HOLES IRREGULARLY SPD ONE SIDE	1
				G 234736 64959		RESISTOR ASSEMBLY C/O 10 RES MTD ON LAM THERMOSETTING PLSTC TERM BD, 3-1/16 W X 3-1/4 LG O/A, FOUR .152 DIA MTG HOLES SPD 2-3/4 X 2-3/8 C TO C	
FA025	CC			G 234137 64959	4	TERMINAL BOARD 3/32 THK, LAM THERMOSETTING PLSTC W/20 STUD TERMS, 3-1/16 W X 3-1/4 LG O/A, FOUR .152 DIA MTG HOLES SPD 2-3/4 X 2-3/8 C TO C, MKD	1
				D 176176A 29.4 OHMS 64959		RESISTOR, FIXED FILM, 29.4 OHMS, P/M 1%, 1 W	
FA026	XA			D 176176A 417 OHMS 64959	4	RESISTOR, FIXED FILM, 417 OHMS, P/M 1%, 1 W	1
				D 176176A 505 OHMS 64959		RESISTOR, FIXED FILM, 505 OHMS, P/M 1%, 1 W	
FA027	XA			D 176176A 1010 OHMS 64959	4	RESISTOR, FIXED FILM, 1010 OHMS, P/M 1%, 1 W	1
				D 176176A 0.1 MEG 64959		RESISTOR, FIXED FILM, 0.1 MEG, P/M 1%, 1 W	
FA028	CC			D 176176A 0.1 MEG 64959	4	RESISTOR, FIXED FILM, 0.1 MEG, P/M 1%, 1 W	2
				D 176176A 0.1 MEG 64959		RESISTOR, FIXED FILM, 0.1 MEG, P/M 1%, 1 W	
FA029	XA			D 176176A 0.1 MEG 64959	4	RESISTOR, FIXED FILM, 0.1 MEG, P/M 1%, 1 W	2
				D 176176A 0.1 MEG 64959		RESISTOR, FIXED FILM, 0.1 MEG, P/M 1%, 1 W	

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2115				•332 MEG 64959		FILM, .332 MEG, P/M 1%, 1 W	2
R2112	FA0295	XC		D 176176A •920 MEG 64959	4	RESISTOR, FIXED FILM, .920 MEG, P/M 1%, 1 W	2
R2112	FA0297	AC		D 176176A 1.13 MEG	4	RESISTOR, FIXED FILM, 1.13 MEG, P/M 1%, 1 W	2
R2113	FA030	XA		D 176176A •493 MEG 64959	4	RESISTOR, FIXED FILM, .493 MEG, P/M 1%, 1 W	2
R2111	FA031	CC	386000-6745	D 176176A 4.99 MEG 64959	4	RESISTOR, FIXED FILM, 4.99 MEG, P/M 1%, 1 W	2
R2114	FA032	AA		G 234737 64959	3	RESISTOR, ASSEMBLY C/O 8 RES MID ON LAM THERMOSETTING PLSTC TERM BD, 3-1/16 W X 3-1/4 LG, MTS BY FOUR •152 DIA HOLES ON 2-3/4 X 2-3/8 CTRS	1
	FA033	AA		G 234137 64959	4	TERMINAL BOARD 3/32 THK LAM THERMOSETTING PLST, W/20 STUD TERMS, 3-1/16 W X 3-1/4 LG O/A, FOUR •152 DIA MTG HOLES SPD 2-3/4 X 2-3/8 C TO C, MKD	1
R2125	FA034	XA	098000-3651	RC20GF222J MIL-R-11A	4	RESISTOR, FIXED COMPOSITION, 2200 OHMS, P/M 5%, 1/2 W	2
R2126							
R2130	FA035	CA	098000-4151	RC20GF562J MIL-R-11A	4	RESISTOR, FIXED COMPOSITION, 5600 OHMS, P/M 5%, 1/2 W	2
R2131							
R2128	FA0355	XC	098000-3331	RC20GF102J	4	RESISTOR, FIXED	1

REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2128	FA0357 AC			MIL-R-11A D 176176A 597 OHMS	4	COMPOSITION, 1000 OHMS, P/M 5%, 1/2 W RESISTOR, FIXED FILM, 597 OHMS, P/M 1%, 1 W	1
R2130 R2131	FA036 XA	3350	098000-4391	RC20GF103J MIL-R-11A	4	RESISTOR, FIXED COMPOSITION, 10,000 OHMS, P/M 5%, 1/2 W	2
R2132	FA037 CB	3350	098000-5291	RC20GF683J MIL-R-11A	4	RESISTOR, FIXED COMPOSITION, 68,000 OHMS, P/M 5%, 1/2 W	1
R2129	FA038 AA			RC42GF683J MIL-R-11A	4	RESISTOR, FIXED COMPOSITION, 68,000 OHMS, P/M 5%, 2 W	1
	FA039 AA			G 234738 64959	3	RESISTOR, ASSEMBLY C/O 15 RES MTD ON LAM THERMOSETTING PLSTC TERM BOARD, 5-9/16 LG X 3-1/16 W X 5/8 THK O/A EXCL RES, MTS BY FOUR .152 DIA HOLES ON 5.062 X 2.375 CTRS	1
	FA040 AA			G 234159 64959	4	TERMINAL BOARD LAM THERMO PLSTC BD 3/32 THK, MTG 36 TERM, 5-9/16 LG X 3-1/16 W X 5/8 THK O/A, MTS MTS BY FOUR .152 DIA HOLES ON 5.062 X 2.375 CTRS	1
R2122 R2123	FA041 XA	3350		D 178618B 31.2 OHMS 64959	4	RESISTOR, FIXED WW, 31.2 OHMS, P/M 1/4%, 1/4 W	2
R2123	FA0413 XC			D 178618B 23.4 OHMS 64959	4	RESISTOR, FIXED WW, 23.4 OHMS, P/M 1/4%, 1 W	1
R2123	FA0414 AC			D 176176A 234 OHMS	4	RESISTOR, FIXED FILM, 234 OHMS, P/M 1%, 1 W	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2122	FA0415 XC			64959 D 178618B 15.8 OHMS 64959	4	RESISTOR, FIXED WW, 15.8 OHMS, P/M 1/4 %, 1 W	1
R2122	FA0417 AC			D 176176A 158 OHMS 64959	4	RESISTOR, FIXED FILM, 158 OHMS, P/M 1%, 1 W	1
R2106	FA042 XA	3350	386000-1138	" D 178618B 38.3 OHMS 64959	4	RESISTOR, FIXED WW, 38.3 OHMS, P/M 1/4%, 1/4 W	1
R2106	FA0425 XC			D 178618B 226 OHMS 64959	4	RESISTOR, FIXED WW, 226 OHMS, P/M 1/4 %, 2 W	1
R2106	FA0427 AC			D 176176A 18.7 OHMS 64959	4	RESISTOR, FIXED FILM, 18.7 OHMS, P/M 1%, 1 W	1
R2120 R2121	FA043 XA	3350		D 178618B 62.6 OHMS 64959	4	RESISTOR, FIXED WW, 62.6 OHMS, P/M 1/4%, 1/4 W	2
R2121	FA0433 XC			D 178618B 7.68 OHMS 64959	4	RESISTOR, FIXED WW, 7.68 OHMS, P/M 1/4 %, 1/4 W	1
R2121	FA0434 AC			D 176176A 76.8 OHMS 64959	4	RESISTOR, FIXED FILM, 76.8 OHMS, P/M 1%, 1 W	1
R2120	FA0435 XC			D 178618B 54.9 OHMS	4	RESISTOR, FIXED WW, 54.9 OHMS, P/M 1/4 %, 1/4 W	1

REFERENCE SYMBOL		STOCK NUMBER			INCIDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2120	FA0437 AC			D 176176A 549 OHMS 64959	4	RESISTOR, FIXED FILM, 549 OHMS, P/M 1%, 1 W	1
R2118	FA044 XA	3350		D 178618B 178 OHMS 64959	4	RESISTOR, FIXED WW, 178 OHMS, P/M 1/4%, 1/4 W	1
R2103	FA045 CA	3350		D 178618B 252 OHMS 64959	4	RESISTOR, FIXED WW, 252 OHMS, P/M 1/4%, 1/4 W	1
R2118	FA046 CA	3350		D 178618B 187 OHMS 64959	4	RESISTOR, FIXED WW, 187 OHMS, P/M 1/4%, 1/4 W	1
R2119	FA0465 CC	3350		D 178618B 249 OHMS 64959	4	RESISTOR, FIXED WW, 249 OHMS, P/M 1/4%, 1/4 W	1
R2117	FA047 XA	3350		D 178618B 135 OHMS 64959	4	RESISTOR, FIXED WW, 135 OHMS, P/M 1/4%, 1/4 W	1
R2117	FA0475 AA			D 178618B 62.5 OHMS 64959	4	RESISTOR, FIXED WW, 62.5 OHMS, P/M 1/4%, 1/4 W	1
R2105	FA048 AA	3350		D 178618B 953 OHMS 64959	4	RESISTOR, FIXED WW, 953 OHMS, P/M 1/4%, 1/4 W	1
R2102	FA049 CC	3350	469000-8228	D 178619B 75,000 OHMS	4	RESISTOR, FIXED WW, 75,000 OHMS, P/M 1/4%, 1 W	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2124	FA0495 AC			64959 D 176176A 0.75 MEG 64959	4	RESISTOR, FIXED FILM, 0.75 MEG, P/M 1%, 1 W	1
R2104	FA050 XA			GA 50508A4071 64959	4	RESISTOR, FIXED FILM, 4070 OHMS, P/M 1%, 1/4 W	1
R2104	FA0505 AA			GA 50508A4021 64959	4	RESISTOR, FIXED FILM, 4020 OHMS, P/M 1%, 1/4 W	1
R2101	FA051 CC	3350	377500-3287	GA 50508A5111 64959	4	RESISTOR, FIXED FILM, 5110 OHMS, P/M 1%, 1/4 W	1

REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
FB000		7CAC		GS 17462 64959	2	ADAPTER, TEST PLUG IN TYPE BOX AND PROVIDES PLUG IN TYPE MTG FOR TESTING PACKAGE AMP, AL ALY SPOT-WELD & RIVET CONST, THREE DOORS, CONNECTORS IN REAR, 8 LG X 5-11/16 W X 5-7/8 D APPROX O/A	1
				BA 10069-28 64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/4 THK X 1/8 ID CTR HOLE	12
				BA 10069-26 64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/16 THK, 1/8 ID CTR HOLE	14
				BA 98203-6 64959 79-012-062-0562 72962	3	PIN, SPRING SPLIT TUBULAR, CRES, .562 LG X .062 OD	4
FB0035	AC	8880	747000-3995	BA 98327-4 64959 122 NO. 6 79963	3	TERMINAL LUG RD TONGUE END TYPE, W/TONGUES AT 90 DEG TO EA OTHER & EA BENT 30 DEG, 11/16 APPROX SQ X 11/64 THK O/A, TINNED FIN BRs, TWO 1/64 DIA HOLES FOR SOLDER CONN, TAKES #13 AWG SINGLE, .144 DIA CTR MTG HOLE	1
				BA 98456 64959 26-4100-32P 02660	3	CONNECTOR, RECEPTACLE 32 MALE CONT RATED 5 AMP @ 600 VDC, STIGHT TYPE, POL RECT DIALLYL PHTHALATE INSERT W/CRES MTG PLT, 3-31/32 LG X 7/8 W X 31/32 H O/A, TWO 1/8 DIA MTG HOLES 3-5/8 C TO C	5
P2201 P2207	FB0045	CC		BA 98466-1 64959 26-4101-32P	3	CONNECTOR, RECEPTACLE 32 MALE, FLAT, POL, STR TYPE, 3-31/32 LG X 1-1/64 W X 31/32 H O/A, RATED AT 5 AMPS,	2

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	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FB005			02660		750 VDC, RECT SHAPE, DIALYL PATHALATE W/SST MTG PL, TWO .125 DIA HOLES SPD C TO C	4
			G 650145-1 64959	3	NUT SELF LOCK RED NYLON & STL CAD PLT SELF LOCKING NYLON INSERT HEX TYPE, .250 ACROSS FLTS X .143 THK 4-40 NC-3B THD	
FB0053	CA		G 234139 64959	3	INSULATOR, PLATE LAM THERMO PLSTC SH 1/32 THK, 3-1/4 LG X 3-1/16 W O/A, FOUR .152 DIA ON 2.750 X 2.375 CTRS	2
			G 234142 64959	3	INSULATOR, PLATE LAM THERMO PLSTC SH 1/32 THK, VARNISH PRETREATMENT, 3-1/2 LG X 2-1/4 W O/A, TWO .152 DIA HOLES SPD 2.437 CTR TO CTR	
FB006	CA		G 234161 64959	3	INSULATOR PLATE LAM THERMO PLSTC SH 1/32 THK 5-9/16 LG X 3-1/16 W O/A, FOUR .152 DIA MTG HOLES SPD ON 2.375 X 5.062 CTRS MKD G-234161	1
			G 235459 64959	3	HANDLE C/O CAM, BLOCK, SLEEVE & HANDLE, 5-1/8 LG X 1-5/8 W X .750 THK O/A, STL STAMPED W/1/16 HIGH CHARACTERS	
FB007	CA		G 234162 64959	4	CAM CRES BAR, .750 DIA X 3/16 THK O/A, .191 DIA HOLE .125 OFF CTR OF OD & .047 DIA HOLE .125 OFF CTR IN THK, STL STAMP MKD G-234162	4
			G 234163	4	BLOCK	
FB008	CA					

REFERENCE SYMBOL	STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
			64959		CRES BAR, 3/4 LG X 3/8 W X 5/16 THK O/A, TWO .164-32 TAP HOLES 5/16 D SPACED .500 C TO C ON BOT, .191 DIA HOLE CENTRALLY LOC ON SIDE	
FB009	CA		G 234164 64959	4	SLEEVE, SPACER AL ALY ROD, ALKALI ETCH FIN, 5/16 DIA X 9/32 LG O/A .203 DIA HOLE THRU CTR	4
FB010	CA		G 234165 64959	4	HANDLE CRES BAR .187 DIA, 5-1/8 LG X 1-3/16 W X 5/8 THK O/A, 3/16 R BEND EA END 31/32 FROM END	2
FB011	CA	7CWX	G 234249-2 64959	3	PLATE, IDENTIFICATION AL ALY SH, .032 THK, ETCHED, 3-9/16 LG X 1-9/16 W O/A, FOUR .136 DIA MTG HOLES SPD 1.250 X 3.250 C TO C, MKD GS-17467 TEST ADAPTER	1
FB012	CA	7CWX	G 234174 64959	3	PANEL FRONT C/O PANEL, CONNECTOR & TWO SWITCHES, AL ALY PANEL, WELD CONST, ANOD PLUS GREY ENAMEL FIN, 8 LG X 5-11/16 W X 4 DEEP O/A, MKD ADAPTER FOR GS-16697 AMPLIFIER SUBASSY	1
FB0125	XA		BA 98203-35 64959	4	PIN, SPRING SPLIT TUBULAR, CRES, .094 OD X 1/2 LG X .022 THK WALL BOTH ENDS CHAMFERED	4
FB013	CC	3360	G 231285 073414689 64959	4	SWITCH, SENSITIVE SPDT, 125/250 VAC RMS, 5 AMP NOM LOAD, 30 VDC, 4 AMP RESISTIVE, LOAD, 2.5 AMP INDUCTIVE LOAD, PHEN BASIC SWITCH BODY W/CRES FRAME, 27/32 LG X 7/16 W X 1-3/16 H O/A, 1/8 DIA CRES PLUNGER TYPE ACTUATOR,	2

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
S2201 S2202 J2201	FB014 CA	8850	354041	BL 722566 64959	4	3 SOLDER LUG TERMS, MTS BY 1/4-40 X 3/8 LG THD BUSH, TWO HEX NUTS 3/32 THK X 3/8 ACROSS FLATS & ONE 7/16 DIA X 1/32 THK CRES LKG RING CONNECTOR, RECEPTACLE 14 CONT, ONE CONN MATING END, FEMALE, 5 AMP, 1700 VAC RMS, ARC RESISTANT PLSTC 1-1/4 LG X 7/16 W X 23/64 H, POLARIZED NON-LOCK TYPE, TWO MTG STUDS NO 4-40 THD, MALE PIN & ASSOC HDWE OMITTED, PHOS BRZ CONT, 20 AWG MAX WIRE SIZE ACCOM	1
	FB0145 XA			G 234152 64959	5	PLATE, BACK .180 THK CRES, 1-51/64 W X 2-51/64 LG O/A, ONE 1/4-40 TAPPED HOLE FOR MTG SWITCH, ONE .938 LG X 1/2 W CUTOUT W/TWO .125 DIA CBORE HOLES ON ENDS FOR MTG CONN, ONE 6-32 TAPPED HOLE ON EA END OF PLATE FOR MTG	1
	FB015 CA			G 234414 64959	4	LABEL, INSTRUCTION LETTERS OF NATURAL AL FUTURE, DEMIBOLD, 10 PT ON BLK DULL FIN AL FOIL, .003 THK X 3-7/8 LG X 1-3/4 W O/A	1
	FB0155 AA			G 234174-2 64959	4	PANEL, FRONT C/O 4 PINS, AL ALY PANEL & STL PLATE, 8 LG X 5-11/16 W X 3-1/8 H O/A	1
	FB016 CA			G 234214-1 64959	5	PANEL, FRONT AL ALY PANEL & TUBING, 8 LG X 5-11/16 W X 3-1/8 H O/A, FOUR 1-3/32 LG X 5/16 W CUTOUTS SPD 7/8 X 7/32 FROM EDGES FOR MTG HANDLES, TWO .166 DIA HOLES IN TUBING SPD .406 FROM TOP	1
	FB0165 AA			BA 98203-35	5	PIN, SPRING	4

REFERENCE SYMBOL		STOCK NUMBER			INDEXT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
FB0167	AA			64959 79-022-094-0500 72962	5	SPLIT TUBULAR, CRES, .094 OD X 1/2 LG X .022 THK WALL, BOTH ENDS CHAMFERED	1
				G 234152 64959		PLATE, BACK .180 THK CRES, 1-51/64 W X 2-51/64 LG O/A, ONE 1/4-40 TAPPED HOLE FOR MTG SWITCH, ONE .938 LG X 1/2 W CUTOUT W/TWO .125 DIA CBORE HOLES ON ENDS FOR MTG CONN, ONE 6-32 X 1/4 D TAPPED HOLE ON EA END OF PLATE FOR MTG	
FB017	XA			G 234139 64959	3	INSULATOR, PLATE LAM THERMO PLSTC SH 1/32 THK, 3-1/4 LG X 3-1/16 W O/A, FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
				G 234142 64959		INSULATOR, PLATE LAM THERMO PLSTC SH 1/32 THK, VARNISH PRETREATMENT, 3-1/2 LG X 2-1/4 W O/A, TWO .152 DIA HOLES SPD 2.437 CTR TO CTR	
FB018	XA			G 234242-1 64959	3	CASE, TEST ADAPTER C/O 3 DOORS, 1 FRAME, 1 PLATE & 8 FSTNRS, AL ALY, RIVET CONST, 6-3/4 LG X 4-5/8 W X 4-1/2 H APPROX O/A	1
				BA 10091-760 64959		PIN, STRAIGHT, HEADED NI STL, CAD PL, 5/16 OD X .300 LG O/A	
FB019	CA			BA 10091-966 64959	4	SPRING, HELICAL TORSION, MUW, CAD PL, .045 DIA, .991 LG X 5/16 W X .200 D O/A	4
				G 650145-1 64959		NUT, SELF LOCK RED, NYLON & STL CAD PL SELF LKG NYLON	
FB020	CA						
FB021	CA						
FB022	CA						

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2235 R2238	FB023	CA		G 234243 64959	4	INSERT HEX TYPE, .250 ACROSS FLTS X .143 THK, 4-40 NC-3B THD	1
	FB024	CA		G 234654 64959	3	PLATE AL ALY SH .064 THK, ALKALI ETCH FIN, 6-1/16 LG X 4-5/16 W O/A W/EIGHT .125 DIA & CSK 82 DEG TO .225 DIA HOLES, 2 ON 4.687 X 2 ON 4.062 CTRS & FOUR ON 3.250 X 1.250 CTRS, RECT HOLE 3 LG X 1 W IN CTR OF PLATE	1
	FB025	CA		G 234140 64959	4	RESISTOR ASSEMBLY C/O 6 RES MTD ON LAM THERMOSETTING PLSTC TERM BD, 3-1/2 LG X 2-1/2 W O/A, TWO .152 DIA MTG HOLES SPD 2.437 C TO C	1
R2235 R2238	FB026	XA	3350	D 178618B 8350 OHMS 64959	4	TERMINAL BOARD 3/32 THK LAMINATED THERMOSETTING PLSTC, 12 STUD TERMS, 3-1/2 LG X 2-1/2 W O/A, TWO .152 DIA MTG HOLES SPD 2.437 C TO C	2
	FB0265	AA		D 178618B 2490 OHMS 64959	4	RESISTOR, FIXED 8350 OHMS, WW, P/M 1/4%, 1/4 W	2
R2236 R2237	FB027	XA	3350	D 178619B 29,100 OHMS 64959	4	RESISTOR, FIXED WW, 2490 OHMS, P/M 1/4%, 1/4 W	2
	FB0275	AA		D 178620B 8760 OHMS 64959	4	RESISTOR, FIXED 29,100 OHMS, WW, P/M 1/4%, 3/4 W	2
R2236 R2237	FB0275	AA		D 178620B 8760 OHMS 64959	4	RESISTOR, FIXED 8760 OHMS, WW, 1/4%, 1 W	2
	FB028	XA	3350	D 178619B	4	RESISTOR, FIXED	2

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		INDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
R2235			37,400 OHMS 64959		37,400 OHMS, WW, P/M 1/4%, 3/4 W	
R2234	CB		D 178620B	4	RESISTOR, FIXED	2
R2239			11,300 OHMS 64959		WW, 11,300 OHMS, P/M 1/4%, 1 W	
FB029	CC		G 234655 64959	3	RESISTOR ASSEMBLY C/O TERM BOARD MTG 20 TERMS & 9 RESISTORS, 3-1/4 LG X 3-1/16 W X 5/8 THK O/A, -MTS BY FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
FB030	CC		G 234137 64959	4	TERMINAL BOARD LAM. THERMO PLSTC BOARD 3/32 THK, MTG 20 TERMS, 3-1/4 LG X 3-1/16 W X 7/16 THK O/A, MTS BY FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
R2227	XA 3350		D 178618B 249 OHMS 64959	4	RESISTOR, FIXED 249 OHMS, P/M 1/4%, WW, 1/4 W	1
R2227	AA		D 178618B 777 OHMS 64959	4	RESISTOR, FIXED WW, 777 OHMS, P/M 1/4%, 1/4 W	1
R2228	XA 3350		D 178618B 750 OHMS 64959	4	RESISTOR, FIXED 750 OHMS, P/M 1/4%, WW, 1/4 W	1
R2228	AA		D178618B 234 OHMS 64959	4	RESISTOR, FIXED WW, 234 OHMS, P/M 1/4%, 1/4 W	1
R2229	XA 3350		D 178618B 481 OHMS	4	RESISTOR, FIXED 481 OHMS, P/M 1/4%, WW, 1/4 W	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2229	FB0335 AA			D 178618B 126 OHMS 64959	4	RESISTOR, FIXED WW, 126 OHMS, P/M 1/4%, 1/4 W	1
R2230	FB034 XA	3350		D 178618B 361 OHMS 64959	4	RESISTOR, FIXED 361 OHMS, P/M 1/4%, WW, 1/4 W	1
R2230	FB0345 AA			D 178618B 715 OHMS 64959	4	RESISTOR, FIXED WW, 715 OHMS, P/M 1/4%, 1/4 W	1
R2231	FB035 CA	3350		D 178618B 156 OHMS 64959	4	RESISTOR, FIXED 156 OHMS, P/M 1/4%, WW, 1/4 W	1
R2203 R2204	FB036 CA	3350	392500-2352	GA 50086A1002 64959	4	RESISTOR, FIXED 10,000 OHMS P/M 1%, 2 W, 500V DC	2
R2232	FB037 XA	3350	386000-1225	D 176176A 42,200 OHMS 64959	4	RESISTOR, FIXED 42,200 OHMS, P/M 1% CARBON, 1 W	1
R2232 R2233	FB0375 XC			D 176176A 23,700 OHMS 64959	4	RESISTOR, FIXED CARBON, 23,700 OHMS, P/M 1%, 1 W	2
R2232 R2233	FB0377 AC			D 176176A 10,600 OHMS 64959	4	RESISTOR, FIXED CARBON, 10,600 OHMS, P/M 1%, 1 W	2
R2233	FB038 XA	3350	386000-1221	D 176176A 41,200 OHMS 64959	4	RESISTOR, FIXED 41,200 OHMS, P/M 1% CARBON, 1 W	1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER				
R2242	XC	FB0385		D 176176A .931 MEG 64959	4	RESISTOR, FIXED CARBON, .931 MEG, P/M 1%, 1 W	1
	AC	FB0387		D 176176A 43,700 OHMS 64959	4	RESISTOR, FIXED CARBON, 43,700 OHMS, P/M 1%, 1 W	1
		FB039		G 234657 64959	3	RESISTOR ASSEMBLY C/O TERM BOARD MTG 36 TERMS & 18 RES, 5-9/16 LG X 3-1/16 W X 5/8 THK O/A, MTS BY FOUR .152 DIA HOLES ON 5.062 X 2.437 CTRS	1
	CA	FB040		G 234159 64959	4	TERMINAL BOARD LAM THERMO PLSTC BOARD 3/32 THK MTG 36 TERMS, 5-9/16 LG X 3-1/16 W X 5/8 THK O/A, MTS BY FOUR .152 DIA HOLES ON 5.062 X 2.437 CTRS	1
R2209	XA	FB041	386000-1123	D 176176A 1780 OHMS 64959	4	RESISTOR, FIXED 1780 OHMS, P/M 1% CARBON, 1 W	1
R2209	AA	FB0415		D 176176A 1930 OHMS 64959	4	RESISTOR, FIXED CARBON, 1930 OHMS, P/M 1%, 1 W	1
R2210	XA	FB042	386000-1138	D 176176A 6,370 OHMS 64959	4	RESISTOR, FIXED 6,370 OHMS, P/M 1%, CARBON, 1 W	1
R2210	AA	FB0425		D 176176A 374 OHMS 64959	4	RESISTOR, FIXED CARBON, 374 OHMS, P/M 1%, 1 W	1
R2224	XA	FB043	386000-1141	D 176176A 64959	4	RESISTOR, FIXED	2

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REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2226				10,000 OHMS 64959		10,000 OHMS, P/M 1%, CARBON, 1 W	
R2224	FB0435 AA			D 176176A 49,900 OHMS 64959	4	RESISTOR, FIXED CARBON, 49,900 OHMS, P/M 1%, 1 W	2
R2213	FB044 XA	3350	386000-1157	D 176176A 14,500 OHMS 64959	4	RESISTOR, FIXED 14,500 OHMS, P/M 1%, CARBON, 1 W	1
R2213	FB0445 AA			D 176176A 10,400 OHMS, 64959	4	RESISTOR, FIXED CARBON, 10,400 OHMS, P/M 1%, 1 W	1
R2223	FB045 CC	3350	386000-3515	D 176176A .499 MEG 64959	4	RESISTOR, FIXED .499 MEG, P/M 1%, CARBON, 1 W	2
R2217	FB046 XA	3350	386000-3615	D 176176A .569 MEG 64959	4	RESISTOR, FIXED .569 MEG, P/M 1%, CARBON, 1 W	1
R2217	FB0465 AA			D 176176A .246 MEG 64959	4	RESISTOR, FIXED .246 MEG, P/M 1%, CARBON, 1 W	1
R2211	FB047 CB	3350	386000-4951	D 176176A .706 MEG 64959	4	RESISTOR, FIXED .706 MEG, P/M 1%, CARBON, 1 W	1
R2212	FB048 CA	3350	386000-5131	D 176176A .715 MEG 64959	4	RESISTOR, FIXED .715 MEG, P/M 1%, CARBON, 1 W	1
R2218	FB049 CA	3350	386000-6481	D 176176A	4	RESISTOR, FIXED	4

REFERENCE SYMBOL		STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2219 R2220 R2221				2.49 MEG 64959		2.49 MEG, P/M 1%, CARBON, 1 W	
R2216	FB050	XA 3350	386000-6521	D 176176A 2.61 MEG 64959	4	RESISTOR, FIXED 2.61 MEG, P/M 1%, CARBON, 1 W	1
R2216	FB0505	AA		D 176176A 1.21 MEG 64959	4	RESISTOR, FIXED CARBON, 1.21 MEG, P/M 1%, 1 W	1
R2222	FB051	XA 3350	386000-6551	D 176176A 2.91 MEG 64959	4	RESISTOR, FIXED 2.91 MEG, P/M 1%, CARBON, 1 W	1
R2222	FB0515	AA		D 176176A .536 MEG 64959	4	RESISTOR, FIXED CARBON, .536 MEG, P/M 1%, 1 W	1
R2214 R2215	FB052	AC 3350	386000-6745	D 176176A 4.99 MEG 64959	4	RESISTOR, FIXED 4.99 MEG	2
R2241	FB0525	AA		D 176176A 5,600 OHMS 64959	4	RESISTOR, FIXED CARBON, 5,600 OHMS, P/M 1%, 1 W	1
	FB053	CC		G 234658 64959	3	RESISTOR-CAPACITOR ASSEMBLY, C/O BOARD MTG 20 TERMS, 6 RES & 4 CAP 3-1/4 LG X 3-1/16 W X 5/8 THK O/A, MTS BY FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
	FB054	CC		G 234137 64959	4	TERMINAL BOARD LAM THERMO PLSTC BOARD 3/32 THK MTG 20	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
C2201 C2202 C2203 C2204	FB055 CB	3330	055725292	GA 51901 64959	4	TERMS, 3-1/4 LG X 3-1/16 W X 7/16 THK O/A, MTS BY FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	4
R2201 R2202	FB056 XC	3350	377500-3295	GA 50508A5231 64959	4	CAPACITOR 2 MF, P/M 20%, 150 VDCW, ELECTROLYTIC	2
R2201 R2202	FB0565 AC			GA 50508A4641 64959	4	RESISTOR, FIXED, FILM 5230 OHMS, 1%, 1/4W, RESISTOR, FIXED FILM, 4640 OHMS, 1%,	2
R2205	FB057 XA	3350	386000-6111	D 176176A 1.0 MEG 64959	4	RESISTOR, FIXED 1.0 MEG, P/M 1%, CARBQN, 1W	1
R2205	FB0575 XC			D 176176A 68,100 OHMS 64959	4	RESISTOR, FIXED CARBON, 68,100 OHMS, P/M 1%, 1 W	1
R2205	FB0577 AC			D 176176A 2,710 OHMS 64959	4	RESISTOR, FIXED CARBON, 2,710 OHMS, P/M 1%, 1 W	1
R2206	FB058 XC	3350	386000-1141	D 176176A 25,800 OHMS 64959	4	RESISTOR, FIXED 25,800 OHMS, P/M 1%, CARBON, 1W	1
R2206	FB0585 AC			D 176176A 1,130 OHMS 64959	4	RESISTOR, FIXED 1,130 OHMS, P/M 1%, 1 W	1
R2207	FB059 XA	3350	386000-6745	D 176176A	4	RESISTOR, FIXED	1

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REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		IDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
R2207	FB0595 AA		4.99 MEG 64959 D 176176A .200 MEG 64959	4	4.99 MEG, P/M 1%, CARBON, 1 W RESISTOR, FIXED CARBON, .200 MEG, P/M 1%, 1 W	1
R2208	FB060 XA	3350 386000-1157	D 176176A 14,500 OHMS 64959	4	RESISTOR, FIXED 14,500 OHMS, P/M 1%, CARBON, 1W	1
R2208	FB0603 AA		D 176176A .301 MEG 64959	4	RESISTOR, FIXED CARBON, .301 MEG, P/M 1%, 1 W	1
R2240	FB0605 AA		D 176176A 258 OHMS 64959	4	RESISTOR, FIXED CARBON, 258 OHMS, P/M 1%, 1 W	1
R2243 R2244	FB0607 AC		GA 50508A5110 64959	4	RESISTOR, FIXED 511 OHMS, 1%, 1/4 W,	2
	FB061 CC		G 235826 64959	3	BAR RETAINING CRES BAR, .125 THK X 6 LG X 1/4 H O/A, SEVEN HOLES .112-40 NC-2B TOP HOLES IRREGULARLY SPD ONE SIDE	2
	FB062 XA		G 234835 64959	3	WIRING HARNESS	1
	FB063 XA	8880 747000-3995	BA 98327-4 64959	3	TERMINAL LUG	1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		INIDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
P2302 P2303 P2304 P2305 P2306	FC000	7CAC	G5 17463 64959	2	ADAPTER, TEST PLUG IN TYPE BOX AND PROVIDES PLUG IN TYPE MTG FOR TESTING PACKAGE AMP, AL ALY SPOT-WELD & RIVET CONST, THREE DOORS, CONNECTORS IN REAR, 8 LG X 5-11/16 W X 5-7/8 D APPROX O/A	1
	FC001	CF	BA 10069-28 64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/4 THK X 1/8 ID CTR HOLE	1
	FC002	CC	BA 10069-26 64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/16 THK, 1/8 ID CTR HOLE	12
	FC003	XA	BA 98203-6 64959 79-012-062-0562 72962	3	PIN, SPRING SPLIT TUBULAR, CRES, .562 LG X .062 OD	4
	FC004	CA 8850 618660	BA 98456 64959 26-4100-32P 02660	3	CONNECTOR, RECEPTACLE 32 MALE CONT RATED 5 AMP @ 600 VDC, STGHT TYPE, POL RECT DIALYL PHTHALATE INSERT W/CRES MTG PLT, 3-31/32 LG X 7/8 W X 31/32 H O/A, TWO 1/8 DIA MTG HOLES 3-5/8 C TO C	5
P2301 P2307	FC0045	CC	BA 98466-1 64959 26-4101-32P 02660	3	CONNECTOR, RECEPTACLE 32 MALE, FLAT, POL, STR TYPE, 3-31/32 LG X 1-1/64 W X 31/32 H O/A, RATED AT 5 AMPS, 750 VDC, RECT SHAPE, DIALYL PATHALATE W/SST MTG PL, TWO .125 DIA HOLES SPD 3.625 C TO C	2
	FC005		G 650145-1 64959	3	NUT SELF LOCK RED NYLON & STL CAD PLT SELF LOCKING NYLON INSERT HEX TYPE, .250 ACROSS FLTS X .143	4

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REFERENCE SYMBOL	STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FC0053 AC			G 252371	3	THK 4-40 NC-3B THD	1
			64959		INSULATOR PLATE LAM THERMO PLSTC SH 1/32 THK, VARNISH PRETREATMENT, 3-1/4 LG X 3-1/16 W O/A W/FOUR .152 DIA MTG HOLES ON 2.750 X 2.375 CTRS, MKD G-252371	
FC0055 CC			G 234139	3	INSULATOR PLATE	1
			64959		LAM THERMO PLSTC SH 1/32 THK, VARNISH - PRETREATMENT, 3-1/4 LG X 3-1/16 W O/A W/FOUR .152 DIA MTG HOLES ON 2.750 X 2.375 CTRS, MKD G-234139	
FC006 CA			G 234161	3	INSULATOR PLATE	1
			64959		LAM THERMO PLSTC SH 1/32 THK 5-9/16 LG X 3-1/16 W O/A, FOUR .152 DIA MTG HOLES SPD ON 2.375 X 5.062 CTRS MKD G-234161	
FC0065 AA			G 235459	3	HANDLE	2
			64959		C/O STL HANDLE W/BLOCKS, CAMS & SPACER SLEEVES, 5-1/8 LG X 1.563 APPROX H O/A	
FC007 XC			G 234162	4	CAM	4
			64959		CRES BAR, .750 DIA X 3/16 THK O/A, .191 DIA HOLE .125 OFF CTR OF OD & .047 DIA HOLE .125 OFF CTR IN THK, STL STAMP MKD G-234162	
FC008 XC			G 234163	4	BLOCK	4
			64959		CRES BAR, 3/4 LG X 3/8 W X 5/16 THK O/A, TWO .164-32 TAP HOLES 5/16 D SPACED .500 C TO C ON BOT, .191 DIA HOLE CENTRALLY LOC ON SIDE	
FC009 XC			G 234164	4	SLEEVE, SPACER	4

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	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FC010	XC		64959		AL ALY ROD, ALKALI ETCH FIN, 5/16 DIA X 9/32 LG O/A .203 DIA HOLE THRU CTR	2
			G 234165 64959	4	HANDLE CRES BAR .187 DIA, 5-1/8 LG X 1-3/16 W X 5/8 THK O/A, 3/16 R BEND EA END 31/32 FROM END	
FC011		7CWX	G 234249-3 64959	3	PLATE, IDENTIFICATION AL ALY SH, .032 THK, ETCHED, 3-9/16 LG X 1-9/16 W O/A, FOUR .136 DIA MTG HOLES SPD .1250 X 3.250 C TO C, MKD GS-17467 TEST ADAPTER	1
			G 234176 64959	3	PANEL FRONT C/O PANEL, CONNECTOR AND SWITCH, AL ALY PANEL WELD CONST UNFIN, 8 LG X 5-11/16 W X 4 DEEP O/A, MKD ADAPTER FOR GS-15490 AMPLIFIER SUBASSEMBLY	
FC0123	AA		G 234176-2 64959	4	PANEL, FRONT C/O 4 PINS, STL PLATE & AL ALY FRONT PANEL, 8 LG X 5-11/16 W X 3/8 H O/A	1
			BA 98203-35 64959 79-022-094-0500 72962	5	PIN, SPRING APLIT TUBULAR, CRES, .094 OD X 1/2 LG X .022 THK WALL, BOTH ENDS CHAMFERED	
FC0127	AA		G 234153 64959	5	PLATE, BACK CRES SHT, .80 THK, UNFIN, 2-51/64 LG X 1-51/64 W O/A, TWO .138-32 NC-2B TAP HOLES EA END	1
			G 234169-1 64959	5	PANEL, FRONT AL ALY PANEL & TUBING WELDED CONST, 8 LG	
FC0129	AA					1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER				
FC013	CC	073414689	G 231285 64959		4	X 5-11/16 W X 3-1/8 H O/A, FOUR 1-3/32 LG X 5/16 W CUTOUTS SPD 7/8 X 7/32 FROM EDGES FOR MTG HANDLES, TWO .166 DIA HOLES IN TUBING SPD .535 FROM TOP 4 SWITCH, SENSITIVE SPDT, 125/250 VAC RMS, 5 AMP NOM LOAD, 30 VDC, 4 AMP RESISTIVE LOAD, 2.5 AMP, INDUCTIVE LOAD, PHEN BASIC SWITCH BODY W/CRES FRAME, 27/32 LG X 7/16 W X 1-3/16 H O/A, 1/8 DIA CRES PLUNGER TYPE ACTUATOR, 3 SOLDER LUG TERMS, MTS BY 1/4-40 X 3/8 LG THD BUSH, TWO HEX NUTS 3/32 THK X 3/8 ACROSS FLATS & ONE 7/16 DIA X 1/32 THK CRES LKG RING	1
FC014	CA	584706	BL 722565 64959		4	CONNECTOR, RECEPTACLE 14 RD GOLD PL FEMALE CONT, POL, STR TYPE, RECT MLD MELAMINE BODY, 1-7/8 LG X 15/32 W X 27/32 D O/A, 1 NO 4-40 MTG STUD ON BACK IN LINE W/FEMALE GUIDE PIN ON FRONT ON 5/32 CTR FROM ONE END	1
FC0145	XA		G 234153 64959		4	PLATE, BACK CRES SH .180 THK, UNFIN, 2-51/64 LG X 1-51/64 W O/A, TWO .138-32 NC-2B TAP HOLES EA END	1
FC0147	CA		G 234414 64959		4	LABEL, INSTRUCTION LETTERS OF NATURAL AL FUTURA, DEMIBOLD, 10 PT ON BLK DULL FIN AL FOIL, .003 THK X 3-7/8 LG X 1-3/4 W O/A	1
FC0149	XA		G 234169-1 64959		4	PANEL, FRONT AL ALY PANEL & TUBING, WELDED CONST, 8 LG X 5-11/16 W X 3-1/8 H O/A, FOUR 1-3/32 LG	1

REFERENCE SYMBOL	STOCK NUMBER				INDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER				
FC015	CA			G 234242-1 64959	3	X 5/16 W CUTOUTS SPD 7/8 X 7/32 FROM EDGES FOR MTG HANDLES, TWO .166 DIA HOLES IN TUBING SPD .535 FROM TOP	1
				G 235826 64959	3	CASE, TEST ADAPTER C/O 3 DOORS, 1 FRAME, 1 PLATE & 8 FSTNRS, AL ALY, RIVET CONST, 6-3/4 LG X 4-5/8 W X 4-1/2 H APPROX O/A	2
				G 234836 64959	3	WIRING HARNESS	1
FC0157	AA	8880	747000-3995	BA 98327-4 64959	4	TERMINAL, LUG	1
FC016	CC			G 234320 64959	3	RESISTOR ASSEMBLY C/O LAM THERMO PLSTC TERM BOARD MTG 20 TERMS & 7 RESISTORS 3-1/4 LG X 3-1/16 W X 5/8 THK APPROX O/A, BTS BY FOUR .152 DIA HOLES ON 2.750 X 2.437 CTRS	1
				G 205654-4 64959	4	CLAMP, ELECTRICAL THERMOPLASTIC NYLON, FUNGUS PROOF, SCR TYPE, .900 LG X 3/8 W X .465 H, 3/16 FROM CTR TO OPEN END OF CLAMP, MTD BY ONE .173 DIA HOLE, HOLDS 3/8 DIA MATL	1
FC017	XC			G 234137 64959	4	TERMINAL BOARD LAM THERMO PLASTIC BOARD 3/32 THK MTG 20 TERMS, 3-1/4 LG X 3-1/16 W X 7/16 THK O/A, FOUR .152 DIA MTG HOLES ON 2.750 X 2.375 CTRS	1
				G 234137-2	4	TERMINAL BOARD	1

REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
V2301	FC0177 AC			64959 J5718 MIL-E-18	4	LAM THERMO PLSTC BOARD 3/32 THK MTG 20 TERMINALS, 3-1/4 LG X 3-1/16 W X 7/16 THK O/A, ONE .166 DIA HOLE, FOUR .152 DIA MTG HOLES ON 2.750 X 2.375 CTRS	1
R2304	FC018 CA	3350		D 178618B 24.9 OHMS 64959	4	RESISTOR, FIXED 24.9 OHMS, P/M 1/4%, 1/4 W	1
R2303	FC019 CA	3350		D 178618B 673 OHMS 64959	4	RESISTOR, FIXED 673 OHMS, P/M 1/4%, 1/4 W	1
R2302	FC020 CA	3350		D 178618B 796 OHMS 64959	4	RESISTOR, FIXED 796 OHMS, P/M 1/4%, 1/4 W	1
R2301	FC021 CA	3350		D 178618B 3480 OHMS 64959	4	RESISTOR, FIXED 3480 OHMS, P/M 1/4%, 1/4 W	1
R2307	FC022 XA	3350	386000-1136	D 176176A 4420 OHMS 64959	4	RESISTOR, FIXED 4420 OHMS, P/M 1%, CARBON, 1 W	1
R2307	FC0225 XC	3350		D 176176A 5230 OHMS 64959	4	RESISTOR, FIXED 5230 OHMS, P/M 1%, CARBON, 1 W	1
R2307	FC0227 AC			D 176176A 517 OHMS 64959	4	RESISTOR, FIXED 517 OHMS, P/M 1%, CARBON, 1 W	1
R2306	FC023 XA	3350	386000-1139	D 176176A	4	RESISTOR, FIXED	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2306	FC0235 XC	3350		6900 OHMS 64959		6900 OHMS, P/M 1%, CARBON, 1 W	1
				D 176176A 6040 OHMS 64959	4	RESISTOR, FIXED 6040 OHMS, P/M 1%, CARBON, 1 W	
R2306	FC0237 AC			D 176176A 590 OHMS 64959	4	RESISTOR, FIXED 590 OHMS, P/M 1%, CARBON, 1 W	1
				D 176176A 0.499 MEG 64959	4	RESISTOR, FIXED 0.499 MEG, P/M 1%, CARBON, 1 W	
R2321	FC024 XC	3350		D 176176A 49,900 OHMS 64959	4	RESISTOR, FIXED 49,900 OHMS, P/M 1%, CARBON, 1 W	1
				D 176176A 5300 OHMS 64959	4	RESISTOR, FIXED 5300 OHMS, P/M 1%, CARBON, 1 W	
R2305	FC0245 XC	3350		D 176176A 511 OHMS 64959	4	RESISTOR, FIXED 511 OHMS, P/M 1%, CARBON, 1 W	1
				G 234321 64959	3	RESISTOR, ASSEMBLY C/O TERM BD MTG 6 RES & 20 TERM, 3-1/4 LG X 3-1/8 W X 7/16 THK O/A	
R2305	FC0247 AC			G 234137 64959	4	TERMINAL BOARD LAM THERMO PLASTIC BD 3/32 THK MTG 20 TERMS, 3-1/4 LG X 3-1/16 W X 7/16 THK O/A, FOUR .152 DIA MTG HOLES ON 2.750 X 2.375 CTRS	1

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REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2311	FC0265 AA			D 178618B 252 OHMS 64959	4	RESISTOR, FIXED 252 OHMS, P/M 1/4%, WW, 1/4 W	1
R2315	FC027 CA	3350		D 178618B 1000 OHMS 64959	4	RESISTOR, FIXED 1000 OHMS, P/M 1/4%, WW, 1/4 W	1
R2316	FC028 XA	3350		D 178618B 530 OHMS 64959	4	RESISTOR, FIXED 530 OHMS, P/M 1/4%, WW, 1/4 W	1
R2316	FC0285 XC			D 178618B	4	RESISTOR, FIXED	1
R2316	FC0287 AC			D 178618B 22.1 OHMS 64959	4	RESISTOR, FIXED 22.1 OHMS, P/M 1/4%, WW, 1/4 W	1
				176 OHMS 64959		176 OHMS, P/M 1/4 %, WW, 1/4 W	
R2312	FC029 XC			D 178618B 229 OHMS 64959	4	RESISTOR, FIXED 229 OHMS, P/M 1/4%, WW, 1/4 W	1
R2312	FC0293 AC			D 178618B 383 OHMS 64959	4	RESISTOR, FIXED 383 OHMS, P/M 1/4%, WW, 1/4 W	1
R2317	FC0295 AA			D 178618B 94.2 OHMS 64959	4	RESISTOR, FIXED WW, 94.2 OHMS, P/M 1/4%, 1/4 W	1
R2318	FC030 XA			D 178618B 172 OHMS 64959	4	RESISTOR, FIXED 172 OHMS, P/M 1/4%, WW, 1/4 W	1
R2318	FC0305 AA			D 178618B	4	RESISTOR, FIXED	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2319	FC031	XA 3350		187 OHMS 64959 D 178618B 78.7 OHMS 64959	4	WW, 187 OHMS, P/M 1/4%, 1/4 W RESISTOR, FIXED 78.7 OHMS, P/M 1/4%, WW, 1/4 W	1
R2319	FC0315	CC 3350		D 178618B 62.6 OHMS 64959	4	RESISTOR, FIXED WW, 62.6 OHMS, P/M 1/4%, 1/4 W	1
R2320	FC032	CA 3350		D 178618B 10,000 OHMS 64959	4	RESISTOR, FIXED 10,000 OHMS, P/M 1/4%, WW, 1/4 W	1
R2323	FC0325	AA 3350		D 178618B 2370 OHMS 64959	4	RESISTOR, FIXED WW, 2370 OHMS, P/M 1/4%, 1/4 W	1
R2322	FC0327	AA 3350		D 178619B 75,000 OHMS 64959	4	RESISTOR, FIXED WW, 75,000 OHMS, P/M 1/4%, 1 W	1
	FC033			G 234646 64959	3	TEST ADAPTER, SUB-ASSEMBLY, C/O TERM BOARD MTG 36 TERMS, 7 RESISTORS & 1 CAP, 5-9/16 LG X 3-1/16 W X 5/8 THK APPROX O/A, MTS BY FOUR .152 DIA HOLES ON 5.062 X 2.437 CTRS	1
	FC034	CA		G 234159 64959	4	TERMINAL BOARD C/O LAM THERMO PLSTC BOARD 3/32 THK MTG 36 TERMS, 5-9/16 LG X 3-1/16 W X 5/8 THK APPROX O/A, MTS BY FOUR .152 DIA HOLES ON 5.062 X 2.375 CTRS	1
R2308	FC035	CA 3350	386000-3515	D 176176A	4	RESISTOR, FIXED	2

REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASST.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2309				0.499 MEG 64959		0.499 MEG, P/M 1%, CARBON, 1 W	1
R2310	FC036	XA	386000-6615	D 176176A 3.2 MEG 64959	4	RESISTOR, FIXED 3.2 MEG, P/M 1%, CARBON, 1 W	1
R2310	FC0365	XC		D 176176A 6810 OHMS 64959	4	RESISTOR, FIXED 6810 OHMS, P/M 1%, CARBON, 1 W	1
R2310	FC0367	AC		D 176176A 15,000 OHMS 64959	4	RESISTOR, FIXED 15,000 OHMS, P/M 1%, CARBON, 1 W	1
R2312	FC037	XA	386000-1355	D 176176A 0.167 MEG 64959	4	RESISTOR, FIXED 0.167 MEG, P/M 1%, CARBON, 1 W	1
R2311	FC038	XA	386000-6591	D 176176A 3.05 MEG 64959	4	RESISTOR, FIXED 3.05 MEG, P/M 1%, CARBON, 1 W	1
R2313	FC039	XA	386000-6281	D 176176A 1.93 MEG 64959	4	RESISTOR, FIXED 1.93 MEG, P/M 1%, CARBON, 1 W	1
R2313	FC0395	XC		D 176176A .909 MEG 64959	4	RESISTOR, FIXED .909 MEG, P/M 1%, CARBON, 1 W	1
R2313	FC0397	AC		D 176176A 1.43 MEG 64959	4	RESISTOR, FIXED 1.43 MEG, P/M 1%, CARBON, 1 W	1
C2301	FC040	XA	3350	CC36SH201G	4	CAPACITOR, FIXED	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
C 2301 C 2302 C 2303 C 2304 C 2305 C 2306	FC0405 AA			JAN-C-20A CC35CH181G JAN-C-20A	4	CERAMIC DIELECTRIC, 200 MMF, P/M 2%, 500 VDCW CAPACITOR, FIXED CERAMIC DIELECTRIC, 180 MMF, P/M 2%	6
	FC041	CA 3350	377500-3441	GA 50508A8661 64959	4	RESISTOR, FIXED R2314 SHALL BE SELECTED FROM THE FOLLOWING RESISTORS	AR
	FC042	XA 3350	377500-3635	GA 50508A1692 64959	4	RESISTOR, FIXED COMPOSITION, 1/4 W, P/M 1%	AR
	FC043	XA 3350	377500-3795	GA 50508A2491 64959	4	RESISTOR, FIXED COMPOSITION, 1/4 W, P/M 1%, 16,900 OHMS,	AR
	FC044	XA 3350	377500-3987	GA 50508A3322 64959	4	RESISTOR, FIXED COMPOSITION, 1/4 W, P/M 1%, 2490 OHMS,	AR
	FC045	XA 3350	377500-4261	GA 50508A4222 64959	4	RESISTOR, FIXED COMPOSITION, 1/4 W, P/M 1%, 33,200 OHMS,	AR
	FC046	XA 3350	377500-4299	GA 50508A5112 64959	4	RESISTOR, FIXED COMPOSITION, 1/4 W, P/M 1%, 42,200 OHMS,	AR
	FC047	XA 3350	377500-4321	GA 50508A5902 64959	4	RESISTOR, FIXED COMPOSITION, 1/4 W, P/M 1%, 51,100 OHMS, HEAT AND MOISTURE RESISTANT	AR
	FC048	XA 3350	377500-4371	GA 50508A6812	4	RESISTOR, FIXED COMPOSITION, 1/4 W, P/M 1%, 59,000 OHMS,	AR

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER				
FC049	XA 3350	377500-4441	GA 50508A7682 64959	64959	4	COMPOSITION, 1/4 W, P/M 1%, 68,100 OHMS, RESISTOR, FIXED COMPOSITION, 1/4 W, P/M 1%, 76,800 OHMS,	AR
FC050	XA 3350	377500-4531	GA 50508A8662 64959	64959	4	RESISTOR, FIXED COMPOSITION, 1/4 W, P/M 1%, 86,600 OHMS,	AR
FC051	XA 3350	377500-4571	GA 50508A9532 64959	64959	4	RESISTOR, FIXED COMPOSITION, 1/4 W, P/M 1%, 95,300 OHMS,	AR
FC052	XA 3350	377500-4631	GA 50508A1053 64959	64959	4	RESISTOR, FIXED COMPOSITION, 1/4 W, P/M 1%, 105,000 OHMS,	AR
FC053	XA 3350	377500-4751	GA 50508A1133 64959	64959	4	RESISTOR, FIXED COMPOSITION, 1/4 W, P/M 1%, 113,000 OHMS,	AR
FC054	XA 3350	377500-4685	GA 50508A1213 64959	64959	4	RESISTOR, FIXED COMPOSITION, 1/4 W, P/M 1%, 121,000 OHMS,	AR
FC055	XC 3350		GA 50084A4642 64959	64959	4	RESISTOR, FIXED COMPOSITION, .75 W, P/M 1%, 46400 OHMS,	AR
FC056	XC 3350		GA 50084A9092 64959	64959	4	RESISTOR, FIXED COMPOSITION, .75 W, P/M 1%, 90,900 OHMS	AR
FC057	XC 3350		GA 50084A1873 64959	64959	4	RESISTOR, FIXED COMPOSITION, .75 W, P/M 1%, 187,000 OHMS	AR
FC058	XC 3350		GA 50084A1403 64959	64959	4	RESISTOR, FIXED COMPOSITION, .75 W, P/M 1%, 140,000 OHMS,	AR

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER			INDEXT	DESCRIPTION	UNITS PER ASSY.	
		SERIAL NUMBER	PART NUMBER					
FD000	7CAC		GS. 17464	64959	2	ADAPTER, TEST PLUG IN TYPE BOX AND PROVIDES PLUG IN TYPE MTG FOR TESTING PACKAGE AMP, AL ALY SPOT-WELD & RIVET CONST, THREE DOORS, CONNECTORS IN REAR, 8 LG X 5-11/16 W X 5-7/8 D APPROX O/A	1	
			BA 10069-28	64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/4 THK X 1/8 ID CTR HOLE	8	
			BA 10069-26	64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/16 THK, 1/8 ID CTR HOLE	8	
			BA 98203-6	64959	3	PIN, SPRING	4	
FD003	XA		79-012-062-0562	72962	3	SPLIT TUBULAR, CRES. .562 LG X .062 OD		
FD0035	AC	8880	747000-3995	BA 98327-4	3	TERMINAL LUG RD TONGUE END TYPE, W/TONGUES AT 90 DEG TO EA OTHER & EA BENT 30 DEG, 11/16 APPROX SQ X 11/64 THK O/A, TINNED FIN BRs, TWO 1/64 DIA HOLES FOR SOLDER CONN, TAKES #13 AWG SINGLE, .144 DIA CTR MTG HOLE	1	
P2402 P2403 P2404 P2405 P2406	CC	8850	618660	BA 98456	3	CONNECTOR, RECEPTACLE 32 MALE CONT RATED 5 AMP @ 600 VDC, STGHT TYPE, POL RECT DIALLYL PHTHALATE INSERT W/CRES MTG PLT, 3-31/32 LG X 7/8 W X 31/32 H O/A, TWO 1/8 DIA MTG HOLES 3-5/8 C TO C	5	
				26-4100-32P				
				02660				
P2401 P2407	CC			BA 98466-1	3	CONNECTOR, RECEPTACLE 32 MALE, FLAT, POL, STR TYPE, 3-31/32 LG X 1-1/64 W X 31/32 H O/A, RATED AT 5 AMPS,	2	
				26-4101-32P				

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REFERENCE SYMBOL	STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FD005			02660		750 VDC, RECT SHAPE, DIALYL PATHALATE W/ST MTG PL, TWO .125 DIA HOLES SPD C TO C	4
			G 650145-1 64959 22NM-40 72962	3	NUT SELF LOCK RED NYLON & STL CAD PLT SELF LOCKING NYLON INSERT HEX TYPE, .250 ACROSS FLTS X .143 THK 4-40 NC-3B THD	
	AA		G 650145-2 64959 22NM-62 72962	3	NUT, SELF LOCK RED NYLON & STL, CAD PLT, SELF LOCKING NYLON INSERT HEX TYPE .312 ACROSS FLTS X .178 THK 6-32 NC-3B THD	2
	AA		G 234148 64959	3	BRACKET AL ALY .064 THK ALKALI ETCH FIN U-SHAPE, 2-3/4 LG X 3/8 W X 23/32 H O/A, FOUR 1/16 R BENDS, TWO .166 DIA HOLES 2.375 C TO C, 1-3/4 ACROSS OPEN END OF BRKT, MKD G-234148	1
FD006	CA		G 234139 64959	3	INSULATOR, PLATE LAM THERMO PLSTC SH 1/32 THK, 3-1/4 LG X 3-1/16 W O/A, FOUR .152 DIA MTG HOLES SPD ON 2.750 X 2.375 CTRS MKD G-234139	2
FD0065	AA		G 235459 64959	3	HANDLE C/O STL HANDLE W/BLOCKS, CAMS & SPACER SLEEVES, 5-1/8 LG X 1.563 APPROX H O/A	2
FD007	XC		G 234162 64959	4	CAM CRES BAR, .750 DIA X 3/16 THK O/A, .191 DIA HOLE .125 OFF CTR OF OD & .047 DIA HOLE .125 OFF CTR IN THK, STL STAMP MKD G-234162	4
FD008	XC		G 234163	4	BLOCK	4

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		IDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
FD009	XC		64959		CRES BAR, 3/4 LG X 3/8 W X 5/16 THK O/A, TWO .164-32 TAP HOLES 5/16 D SPACED .500 C TO C ON BOT, .191 DIA HOLE CENTRALLY LOC ON SIDE	4
			G 234164	4	SLEEVE, SPACER	
			64959		AL ALY ROD, ALKALI ETCH FIN, 5/16 DIA X 9/32 LG O/A .203 DIA HOLE THRU CTR	
			G 234165	4	HANDLE	
FD010	XC		64959		CRES BAR .187 DIA, 5-1/8 LG X 1-3/16 W X 5/8 THK O/A, 3/16 R BEND EA END 31/32 FROM END	2
FD011	7CWX		G 234249-4	3	PLATE, IDENTIFICATION	1
			64959		AL ALY SH, .032 THK, ETCHED, 3-9/16 LG X 1-9/16 W O/A, FOUR .136 DIA MTG HOLES SPD .1250 X 3.250 C TO C, MKD GS-17467 TEST ADAPTER	
FD012	7CWX		G 234173	3	PANEL FRONT	1
			64959		C/O 4 PINS, SWITCH, CONN, 2 PLATES, BRACKET CONTACT AND PANEL, AL ALY, ANOD PLUS GREY ENAMEL FIN, WELD CONST 8 LG X 5-11/16 W X 3-11/16 D APPROX O/A	
S2401	CC	073414689	G 231285	4	SWITCH, SENSITIVE	1
			64959		SPDT, 125/250 VAC RMS, 5 AMP NOM LOAD, 30 VDC, 4 AMP RESISTIVE LOAD, 2.5 AMP INDUCTIVE LOAD, PHEN BASIC SWITCH BODY W/CRES FRAME, 27/32 LG X 7/16 W X 1-3/16 H O/A, 1/8 DIA CRES PLUNGER TYPE ACTUATOR, 3 SOLDER LUG TERMS, MTS BY 1/4-40 X 3/8 LG THD BUSH, TWO HEX NUTS 3/32 THK X 3/8 CRES LKG RING ACROSS FLATS & ONE 7/16 DIA X 1/32 THK	

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER			INVENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER				
J2401	FD014	XA		BA 98203-35 64959 79-022-094-0500 72962	4	PIN, SPRING SPLIT TUBULAR CRES, .094 OD X 1/2 LG X .022 THK WALL, BOTH ENDS CHAMFERED	4
	FD015	CA	3350	BL 722564 64959	4	CONNECTOR, RECEPTACLE 9 RD GOLD PL FEMALE CONT, POL, STR TYPE, RECT MLD MELAMINE BODY, 1-5/16 LG X 3/8 W X 27/32 D, 1 NO 4-40 MTG STUD ON BACK IN LINE W/FEMALE GUIDE PIN ON FRONT ON 5/32 CTR FROM ONE END	1
	FD016	XA		G 234154 64959	4	PLATE, BACK CRES, .180 THK, 2-51/64 LG X 1-51/64 W O/A, MTS BY TWO .138-32 NC-2B X 1/4 D HOLES, ONE IN EA END ON .090 X .898 CTR MKD G-234154	1
	FD017	CA	7CWX	G 234143 G234143 64959	4	CONTACT, ELECTRICAL C/O SPRING, CONT, TERM LUG & INSUL, 1-11/16 LG X 1/4 W X 11/16 D APPROX O/A, SOLDER CONST MKD G-234143	1
	FD0175	AA		G 234173-2 64959	4	PANEL, FRONT C/O 4 PINS, 2 PLATES, BRKT & PANEL, 8 LG X 5-11/16 W X 3-5/8 H O/A	1
	FD018	CA		G 234166-2 64959	5	PANEL, FRONT AL ALY 1/8 THK ANOD PLUS GREY ENAMEL FIN 8 LG X 5-11/16 W X 3-1/8 D O/A, C/O PANEL & RECT TUB, WELD CONST, TWO .166 DIA MATING HOLES IN RECT TUB SPACED 1 FROM SIDE & 2.590 FROM FRONT PANEL	1
	FD0185	AA		BA 98203-35 64959	5	PIN, SPRING SPLIT TUBULAR CRES, .094 OD X 1/2 LG X	4

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REFERENCE SYMBOL	STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FD0187	AA		79-022-094-0500 72962	5	.022 THK WALL, BOTH ENDS CHAMFERED	1
			G 234154 64959			
FD0188	XA		G 234837 64959	3	WIRING HARNESS	1
FD0189	XA	8880 747000-3995	BA 98327-4 64959	4	TERMINAL LUG	1
FD019			G 234242-2 64959	3	CASE, TEST ADAPTER C/O 8 FASTENERS, 4 SELF LOCK NUTS, 6 BRKTS, 1 PLATE, 1 FRAME & 3 DOORS, AL ALY RIVET CONST, 6-3/4 LG X 4-5/8 W X 4-1/2 H APPROX O/A	1
FD020			BA 10091-760 64959	4	PIN, STRAIGHT HEADED NIC STL, CAD PLT 5/16 OD X .300 LG O/A	4
FD021			BA 10091-966 64959	4	SPRING, HELICAL TORSION, MUW, CAD PLT, .045 DIA, .991 LG X 5/16 W X .200 D O/A	4
FD022			G 650145-1 64959 22NM-40 72962	4	NUT, SELF LOCK RED NYLON & STL CAD PLT SELF LOCKING NYLON INSERT, HEX TYPE, .250 ACROSS FLTS X .143 THK, 4-40 NC-3B THD	4
FD023			G 234243	4	PLATE	1

REFERENCE SYMBOL		STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
				64959		AL ALY SH .064 THK, ALKALI ETCH FIN, 6-1/16 LG X 4-5/16 W O/A W/EIGHT .125 DIA & CSK 82 DEG TO .225 DIA HOLES, FOUR ON 4.687 X 3.750 CTRS & FOUR ON 3.250 X 1.250 CTRS, RECT HOLE 3 LG X 1 W IN CTR OF PLATE	1
FD024				G 234168 64959	4	FRAME AL ALY ANGLE CONST ALKALI ETCH FIN, WELDED, 4-7/16 LG X 4-3/8 W X 6-11/16 D O/A, MKD G-234168	1
FD0245	CC			G 235826 64959	3	BAR, RETAINING CRES BAR, .125 THK X 6 LG X 1/4 H O/A, SEVEN HOLES .112-40 NC-28 TOP HOLES IRREGULARLY SPD ONE SIDE	2
FD025	CC			G 234565 64959	3	RESISTOR ASSEMBLY C/O LAM THERMO PLSTC BOARD MTG 20 TERMS & 8 RESISTORS, ONE SIDE ONLY, 3-1/4 LG X 3-1/16 W X 1/2 THK APPROX O/A, MTS BY FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS, MKD G-234565	1
FD026	CC			G 234137 64959	4	TERMINAL BOARD C/O LAM THERMO PLSTC BOARD 3/32 THK MTG 20 TERMS, VARNISH PRETREAT, 3-1/4 LG X 3-1/16 W X 7/16 THK APPROX O/A, FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
FD027	XA	3350		D 178618B 62.6 OHMS 64959	4	RESISTOR, FIXED 62.6 OHMS, P/M 1/4 %, WW, 1/4 W	1
FD0275	AA			D 178618B 94.2 OHMS	4	RESISTOR, FIXED 94.2 OHMS, P/M 1/4 %, WW, 1/4 W	1
R2414							
R2414							

REFERENCE SYMBOL		STOCK NUMBER			INCIDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2415	FD028	XA 3350		D 178618B 187 OHMS 64959	4	RESISTOR, FIXED 187 OHMS, P/M 1/4 %, WW, 1/4 W	1
R2415	FD0285	CC 3350		D 178618B 156 OHMS 64959	4	RESISTOR, FIXED 156 OHMS, P/M 1/4 %, WW, 1/4 W	1
R2413	FD029	XA 3350		D 178618B 750 OHMS 64959	4	RESISTOR, FIXED 750 OHMS, P/M 1/4 %, WW, 1/4 W	1
R2413	FD0295	AA		D 178618B 124 OHMS 64959	4	RESISTOR, FIXED 124 OHMS, P/M 1/4 %, WW, 1/4 W	1
R2412	FD030	CA 3350		D 178618B 1000 OHMS 64959	4	RESISTOR, FIXED 1000 OHMS P/M .25%, WW, 1/4 W	1
R2416	FD0305	AC		D 178618B 626 OHMS 64959	4	RESISTOR, FIXED 626 OHMS, P/M .25%, WW, 1/4 W	1
R2410	FD031	XA 3350	386000-1113	D 176176A 53.6 OHMS 64959	4	RESISTOR, FIXED 53.6 OHMS, P/M 1%, CARBON, 1 W	1
P2410	FD0315	AA		D 176176A 320 OHMS 64959	4	RESISTOR, FIXED 320 OHMS, P/M 1%, CARBON, 1 W	1
R2411	FD032	XA 3350	386000-1143	D 176176A 129 OHMS	4	RESISTOR, FIXED 129 OHMS, P/M 1%, CARBON, 1 W	1

REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2411	FD0325	AA		64959 D 176176A 127 OHMS 64959	4	RESISTOR, FIXED 127 OHMS, P/M 1%, CARBON, 1 W	1
R2409	FD033	XA	386000-1153	D 176176A 12,900 OHMS 64959	4	RESISTOR, FIXED 12,900 OHMS, P/M 1%, CARBON, 1 W	1
R2409	FD0335	AA		D 176176A 8,450 OHMS 64959	4	RESISTOR, FIXED 8,450 OHMS, P/M 1%, CARBON, 1 W	1
R2408	FD034	CA	386000-3515	D 176176A 0.499 MEG 64959	4	RESISTOR, FIXED 0.499 MEG, P/M 1%, CARBON, 1 W	1
	FD035	CC		G 234566 64959	3	RESISTOR ASSEMBLY C/O LAM THERMO PLSTC BOARD MTG 20 TERMS & 7 RESISTORS ONE SIDE ONLY, 3-1/4 LG X 3-1/16 W X 1/2 THK APPROX O/A, MTS BY FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS MKD G-234566	1
	FD036	CC		G 234137 64959	4	TERMINAL BOARD C/O LAM THERMO PLSTC BOARD 3/32 THK, MTG 20 TERMS, VARNISH PRETREAT, 3-1/4 LG X 3-1/16 W X 7/16 THK APPROX O/A, FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
R2406	FD037	XC	3350	D 178618B 18 OHMS 64959	4	RESISTOR, FIXED 18 OHMS P/M .25%, WW, 1/4 W	1
R2406	FD0375	AC		D 178618B	4	RESISTOR, FIXED	1

REFERENCE SYMBOL		STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2407	FD038	XC 3350		30.1 OHMS 64959 D 178618B 36.1 OHMS 64959	4	30.1 OHMS, P/M .25%, WW, 1/4 W RESISTOR, FIXED 36.1 OHMS P/M .25%, WW, 1/4 W	1
R2405	FD039	CA 3350		D 178618B 150 OHMS 64959	4	RESISTOR, FIXED 150 OHMS P/M .25%, WW, 1/4 W	1
R2402	FD040	CC 3350	386700-1231	GA 50508A51R1 64959	4	RESISTOR, FIXED FILM, 51.1 OHMS P/M 1%, 1/4 W,	1
R2403 R2404	FD041	CC 3350	377500-3287	GA 50508A5111 64959	4	RESISTOR, FIXED FILM, 5110 OHMS P/M 1%, 1/4 W,	2
R2401	FD042	XC 3350	380500-1435	GA 50083A1540 64959	4	RESISTOR, FIXED FILM, 154 OHMS P/M 1%, 1/2 W,	1
R2401	FD0425	AC		GA 50083A1130 64959	4	RESISTOR, FIXED FILM, 113 OHMS, P/M 1%, 1/2 W,	1
R2401	FD0425	AC		GA 50083A1130 64959	4	RESISTOR, FIXED FILM, 113 OHMS, P/M 1%, 1/2 W, HEAT & MOISTURE RESISTANT	1
Z2401	FD043	CA 6400	475578-522	GA 50535 64959	3	NETWORK, RATIO C/O 3 RES, DETERMINES THE RATIO OF THE ALGEBRAICALLY SUMMED FEEDBACK SIG TO THE INPUT SIG TO AMPL, 4 STAND-OFF TERM, 1-23/32 LG X 23/32 W X 4-11/32 APPROX H O/A, TWO 8-32 X 9/16 LG MTG STUDS SPD 1-1/8 C TO C, HERMETICALLY SEALED	1
C2401	FD044	XC 3330	055350187	CC21CK010C	3	CAPACITOR, FIXED	1

REFERENCE SYMBOL		STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER -ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
C2401	FD0445 AC			JAN-C-20A	3	CERAMIC DIELECTRIC, 500 VDCW, 1 MMF, P/M 0.25 MMF	1
				CC21CK150C JAN-C-20A		CAPACITOR, FIXED CERAMIC DIELECTRIC, 500 VDCW, 15 MMF, P/M 0.25 MMF	

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REFERENCE SYMBOL	FE000	CLASS CODE	STOCK NUMBER		INDENT	DESCRIPTION	UNITS PER ASSY.
			SERIAL NUMBER	PART NUMBER			
K2501 K2502	FE0005	CA 3380	7CAC	GS 17465 64959	2	ADAPTER, TEST PLUG IN TYPE BOX AND PROVIDES PLUG IN TYPE MTG FOR TESTING PACKAGE AMP, AL ALY SPOT-WELD & RIVET CONST, THREE DOORS, CONNECTORS IN REAR, 8 LG X 5-11/16 W X 5-7/8 D APPROX O/A	1
				BA 10059-9 64959 C-17278 71482	3	RELAY, ARMATURE DPDT, CONT ARRANGEMENT 4C, 18 GAUGE PALLADIUM CONT RATED 2 AMP @ 28.5 VDC, 6 SOLDER LUG TERM ON COIL & CONT, 1-7/32 H X 1-19/32 LG X 1 W O/A, BAKELITE SPRING INSULATORS, MTD BY TWO 4-40 TAPPED HOLES SPD .437 X .375 C TO C	2
FE001	FE002	XA		BA 10069-28 64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/4 THK X 1/8 ID CTR HOLE	12
				BA 10069-26 64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/16 THK, 1/8 ID CTR HOLE	16
FE003	FE0035	AC 8880	747000-3995	BA 98203-6 64959 79-012-062-0562 72962	3	PIN, SPRING SPLIT TUBULAR, CRES, .562 LG X .062 OD	4
				BA 98327-4 64959 122 NO. 6 79963	3	TERMINAL LUG RD TONGUE END TYPE, W/TONGUES AT 90 DEG TO EA OTHER & EA BENT 30 DEG, 11/16 APPROX SQ X 11/64 THK O/A, TINNED FIN BR, TWO 1/64 DIA HOLES FOR SOLDER CONN, TAKES #13 AWG SINGLE, .144 DIA CTR MTG HOLE	1
P2502	FE004	CC 8850	618660	BA 98456	3	CONNECTOR, RECEPTACLE	5

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REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		INDET	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
P2503 P2504 P2505 P2506			64959 26-4100-32P 02660		32 MALE CONT RATED 5 AMP @ 600 VDC, STIGHT TYPE, POL RECT DIALLYL PHTHALATE INSERT W/CRES MTG PLT, 3-31/32 LG X 7/8 W X 31/32 H O/A, TWO 1/8 DIA MTG HOLES 3-5/8 C TO C	2
P2501 P2507	CC		BA 98466-1 64959 26-4101-32P 02660	31	CONNECTOR, RECEPTACLE 32 MALE, FLAT, POL, STR TYPE, 3-31/32 LG X 1-1/64 W X 31/32 H O/A, RATED AT 5 AMPS, 750 VDC, RECT SHAPE, DIALLYL PATHALATE W/SST MTG PL, TWO .125 DIA HOLES SPD 3.625 C TO C	2
FE005			G 650145-1 64959	31	NUT SELF LOCK RED NYLON & STL CAD PLT SELF LOCKING NYLON INSERT HEX TYPE, .250 ACROSS FLTS X .143 THK 4-40 NC-3B THD	4
FE0052	CA		G 234119 64959	31	BRACKET AL ALY SH, .064 THK, ALKALI ETCH, H SHAPE, 3 LG X 3 W X 2 D O/A	1
FE0055	CC		G 234136 64959	31	INSULATOR, PLATE LAM THERMO PLSTC SH 1/32 THK, 2-1/2 LG X 2 W O/A, TWO .152 DIA HOLES SPD .937 C TO C	2
FE0057	CC		G 234139 64959	31	INSULATOR, PLATE LAM THERMO PLSTC SH 1/32 THK, 3-1/4 LG X 3-1/16 W O/A, FOUR .152 DIA MTG HOLES SPD ON 2.750 X 2.375 CTRS, MKD G-234139	2
FE006	CA		G 234161 64959	31	INSULATOR PLATE LAM THERMO PLSTC SH 1/32 THK 5-9/16 LG X 3-1/16 W O/A, FOUR .152 DIA MTG HOLES SPD ON 2.375 X 5.062 CTRS MKD G-234161	1
FE0065	AA		G 235459	31	HANDLE	2

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REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
FE007	CA			64959	4	C/O STL HANDLE W/BLOCKS, CAMS & SPACER SLEEVES, 5-1/8 LG X 1.563 APPROX H O/A	4
				G 234162 64959	4	CAM CRES BAR, .750 DIA X 3/16 THK O/A, .191 DIA HOLE .125 OFF CTR OF OD & .047 DIA HOLE .125 OFF CTR IN THK, STL STAMP MKD G-234162	
FE008	CA			G 234163 64959	4	BLOCK CRES BAR, 3/4 LG X 3/8 W X 5/16 THK O/A, TWO .164-32 TAP HOLES 5/16 D SPACED .500 C TO C ON BOT, .191 DIA HOLE CENTRALLY LOC ON SIDE	4
				G 234164 64959	4	SLEEVE, SPACER AL ALY ROD, ALKALI ETCH FIN, 5/16 DIA X 9/32 LG O/A .203 DIA HOLE THRU CTR	
FE009	CA			G 234165 64959	4	HANDLE CRES BAR .187 DIA, 5-1/8 LG X 1-3/16 W X 5/8 THK O/A, 3/16 R BEND EA END 31/32 FROM END	2
				G 234249-5 64959	3	PLATE, IDENTIFICATION AL ALY SH, .032 THK, ETCHED, 3-9/16 LG X 1-9/16 W O/A, FOUR .136 DIA MTG HOLES SPD .1250 X 3.250 C TO C, MKD GS-17467 TEST ADAPTER	
FE010	CA			G 234178 64959	3	PANEL, FRONT C/O SWITCH & CONN ASSEM ON PANEL, 3-1/8 H X 8 LG X 5-11/16 W O/A EXCL CONN & SCREW	1
				BA 98396-3 64959	4	TERMINAL, LUG RD TONGUE END, COP, TINNED FIN,	
FE011		7CW					
FE012	CA	7CW					
FE0123	AC						

REFERENCE SYMBOL		STOCK NUMBER			INDEXT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
S2501 S2502	FE0125	XA		11A-NO. 4 79963 BA 98203-35 64959 79-022-094-0500 72962	4	ACCOMMODATES 13 AWG, 17/32 LG X 1/4 W X .015 THK O/A, .120 DIA HOLE	4
	FE013	CC	3360 073414689	G 231285 64959	4	PIN, SPRING SPLIT TUBULAR, CRES, .094 OD X 1/2 LG X .022 THK WALL, BOTH ENDS CHAMFERED	2
	FE014	CA	8850 584706	BL 722565 64959	4	SWITCH, SENSITIVE SPDT, 125/250 VAC RMS, 5 AMP NOM LOAD, 30 VDC, 4 AMP RESISTIVE LOAD 2.5 AMP INDUCTIVE LOAD, PHEN BASIC SWITCH BODY W/CRES FRAME, 27/32 LG X 7/16 W X 1-3/16 H O/A, 1/8 DIA CRES PLUNGER TYPE ACTUATOR, 3 SOLDER LUG TERMS, MTS BY 1/4-40 X 3/8 LG THD BUSH, TWO HEX NUTS 3/32 THK X 3/8 ACROSS FLATS & ONE 7/16 DIA X 1/32 THK CRES LKG RING	1
	FE0145	XA		G 234155 64959	4	CONNECTOR, RECEPTACLE 14 RD GOLD PL FEMALE CONT, POL, STR TYPE, RECT MLD MELAMINE BODY, 1-7/8 LG X 15/32 W X 27/32 D O/A, 1 NO 4-40 MTG STUD ON BACK IN LINE W/FEMALE GUIDE PIN ON FRONT ON 5/32 CTR FROM ONE END	1
	FE015	CA		G 234414 64959	4	PLATE, BACK .180 THK CRES, 1-51/64 W X 2-51/64 LG O/A, ONE 1/4-40 TAPPED HOLE FOR MTG SWITCH, ONE 1.312 LG X 1/2 W CUTOUT W/TWO .125 DIA CBORE HOLES ON ENDS FOR MTG CONN, ONE 6-32 X 1/4 D HOLE ON EA END FOR MTG	1
					4	LABEL INSTRUCTION LETTERS OF NATURAL AL, FUTURA, DEMIBOLD, 10 PT ON BLACK DULL FIN AL FOIL, .003 THK,	1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		IDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
FE0153	AA		G 234178-2 64959	4	3-7/8 LG X 1-3/4 W O/A PANEL, FRONT C/O 4 PINS, PLATE & PANEL, 3-1/8 H X 8 LG X 5-11/16 W O/A	1
FE0155	CA		G 234214-2 64959	5	PANEL, FRONT AL ALY, ANOD & GREY ENAMEL FIN, WELD CONST, 8 LG X 5-11/16 W X 3-1/8 THK O/A, FOUR CUTOUTS 5/16 W X 1-3/32 LG SPD 7/32 X 7/8 FROM EA CORNER FOR MTG HANDLES, 2-13/16 X 1-13/16 CUTOUT 1 FROM EDGE	1
FE0157	AA		BA 98203-35 64959 79-022-094-0500 72962	5	PIN, SPRING SPLIT TUBULAR, CRES, .094 OD X 1/2 LG X .022 THK WALL BOTH ENDS CHAMFERED	4
FE0158	AA		G 234155 64959	5	PLATE, BACK .180 THK CRES, 1-51/64 W X 2-51/64 LG O/A, ONE 1/4-40 TAPPED HOLE FOR MTG SWITCH, ONE 1.312 LG X 1/2 W CUTOUT W/TWO .125 DIA CBORE HOLES ON ENDS FOR MTG CONN, ONE 6-32 X 1/4 D HOLE ON EA END FOR MTG	1
FE016	CA		G 234242-1 64959	3	CASE, TEST ADAPTER C/O 3 DOORS, 1 FRAME, 1 PLATE & 8 FSTNRS, AL ALY, RIVET CONST, 6-3/4 LG X 4-5/8 W X 4-1/2 H APPROX O/A	1
FE017	CA		BA 10091-760 64959	4	PIN, STRAIGHT HEADED NI STL, CAD PL, 5/16 OD X .300 LG O/A	4
FE018	CA		BA 10091-966 64959	4	SPRING, HELICAL TORSION, MUW, CAD PL, .045 DIA, .991 LG X 5/16 W X .200 D O/A	4

REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
FE019	CA			G 650145-1 64959	4	NUT, SELF LOCK RED, NYLON & STL CAD PL SELF-LKG NYLON INSERT HEX TYPE, .250 ACROSS FLTS X .143 THK 4-40 NC-3B THD	4
FE020	CA			G 234243 64959	4	PLATE AL ALY SH .064 THK ALKALI ETCH FIN, 6-1/16 LG X 4-5/16 W O/A W/EIGHT .125 DIA & CSK 82 DEG TO .225 DIA HOLES, FOUR ON 4.687 X 3.750 CTRS & FOUR ON 3.250 X 1.250 CTRS, RECT HOLE 3 LG X 1 W IN CTR OF PLATE	1
FE021	CC			G 234740 64959	3	RESISTOR ASSEMBLY C/O BOARD MTG 36 TERMS & 19 RES, 5-9/16 LG X 3-1/16 W X 1/2 THK O/A, MTS BY FOUR .152 DIA HOLES ON 5.062 X 2.437 CTRS	1
FE022	CA			G 234159 64959	4	TERMINAL BOARD LAM THERMO PLSTC BOARD 3/32 THK, MTS 36 TERMS, 5-9/16 LG X 3-1/16 W X 1/2 THK O/A, MTS BY FOUR .152 DIA HOLES ON 5.062 X 2.375 CTRS	1
FE023	XA	3350	386000-11125	D 176176A 200 OHMS 64959	4	RESISTOR, FIXED, FILM 200 OHMS, P/M 1%, 1 W	1
FE0235	XC			D 176176A 237 OHMS 64959	4	RESISTOR, FIXED, FILM 237 OHMS P/M 1%, 1 W	1
FE0237	AC			D 176176A 129 OHMS 64959	4	RESISTOR, FIXED, FILM 129 OHMS, P/M 1%, 1 W	1
FE024	XA	3350	386000-11133	D 176176A	4	RESISTOR, FIXED, FILM	2

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2535				2940 OHMS 64959		2940 OHMS, P/M 1%, 1 W	
R2518	FE0245	CC		D 176176A	4	RESISTOR, FIXED, FILM	2
R2535				1,960 OHMS 64959		1960 OHMS, P/M 1%, 1 W	
R2525	FE025	XA	3350 386000-1181	D 176176A	4	RESISTOR, FIXED, FILM	2
R2526				24,900 OHMS		24,900 OHMS, P/M 1%, 1 W	
R2525	FE0253	XB		D 176176A	4	RESISTOR, FIXED, FILM	1
				47,700 OHMS 64959		47,700 OHMS, P/M 1%, 1 W	
R2525	FE0254	CC		D 176176A	4	RESISTOR, FIXED, FILM	1
				43,700 OHMS 64959		43,700 OHMS, P/M 1%, 1 W	
R2526	FE0255	XB		D 176176A	4	RESISTOR, FIXED, FILM	1
				32,200 OHMS 64959		32,200 OHMS, P/M 1%, 1 W	
R2526	FE0256	AB		D 176176A	4	RESISTOR, FIXED, FILM	1
				33,200 OHMS 64959		33,200 OHMS, P/M 1%, 1 W	
R2530	FE026	XA	3350 386000-1237	D 176176A	4	RESISTOR, FIXED, FILM	1
				49,900 OHMS 64959		49,900 OHMS, P/M 1%, 1 W	
R2530	FE0265	AA		D 176176A	4	RESISTOR, FIXED, FILM	1
				76,800 64959		76,800 OHMS, P/M 1%, 1 W	
R2520	FE027	CA	3350 386000-1248	D 176176A	4	RESISTOR, FIXED, FILM	1
				52,300 OHMS		52,300 OHMS, P/M 1%, 1 W	

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASST.
		SERIAL NUMBER	PART NUMBER				
R2522	FE028 XA	3350 386000-2521	D 176176A 162,000 OHMS 64959	4	4	RESISTOR, FIXED, FILM 162,000 OHMS, P/M 1%, 1 W	1
R2521	FE029 XA	3350 386000-1357	D 176176A 178,000 OHMS 64959	4	4	RESISTOR, FIXED, FILM 178,000 OHMS, P/M 1%, 1 W	1
R2521	FE0295 AA		D 176176A 57,200 OHMS 64959	4	4	RESISTOR, FIXED, FILM 57,200 OHMS, P/M 1%, 1 W	1
R2523	FE030 XA	3350 386000-6211	D 176176A 1.62 MEG 64959	4	4	RESISTOR, FIXED, FILM 1.62 MEG, P/M 1%, 1 W	1
R2523	FE0305 AA		D 176176A 1.89 MEG 64959	4	4	RESISTOR, FIXED, FILM 1.89 MEG, P/M 1%, 1 W	1
R2528 R2529 R2532 R2533 R2534	FE031 CA	3350 386000-6421	D 176176A 2 MEG 64959	4	4	RESISTOR, FIXED, FILM 2 MEG, P/M 1%, 1 W	5
R2527 R2531	FE032 CA	386000-6745	D 176176A 4.99 MEG 64959	4	4	RESISTOR, FIXED, FILM 4.99 MEG, P/M 1%, 1 W	2
R2506	FE0321 AC		D 178618B 706 OHMS 64959	4	4	RESISTOR, FIXED W, 706 OHMS, P/M 1/4%, 1/4 W	1
R2507	FE0322 AC		D 178618B	4	4	RESISTOR, FIXED	1

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REFERENCE SYMBOL		STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2508	FE0323 AC			511 OHMS 64959 D 178618B 287 OHMS 64959	4	WW, 511 OHMS, P/M 1/4%, 1/4 W RESISTOR, FIXED WW, 287 OHMS, P/M 1/4%, 1/4 W	1
R2540	FE0325 XC			GA 50086A5304 64959	4	RESISTOR, FIXED COMPOSITION, 5.30 MEG, P/M 1%, 2 W,	1

REFERENCE SYMBOL		STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
FE033	CC			G 234741 64959	3	RESISTOR ASSEMBLY C/O 10 RES MTD ON LAM THERMOSETTING PLSTC TERM BD, 3-1/4 LG X 3-1/16 W X 7/16 H O/A EXCL RES, FOUR .152 DIA MTG HOLES ON 2.750 X 2.375 CTRS	1
FE034	CC			G 234137 64959	4	TERMINAL BOARD C/O LAM THERMO PLSTC BOARD 3/32 THK, MTG 20 TERMS, VARNISH PRETREAT, 3-1/4 LG X 3-1/16 W X 7/16 THK APPROX O/A, FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
R2510				D 178618B 18.75 OHMS 64959	4	RESISTOR, FIXED WW, 18.75 OHMS, P/M 1/4%, 1/4 W	1
R2510 R2512	CC			D 178618B 379 OHMS	4	RESISTOR, FIXED WW, 379 OHMS, P/M 1/4%, 1/4 W	2
R2516	AC			D 176176A 26,400 OHMS 64959	4	RESISTOR, FIXED, FILM 26,400 OHMS, P/M 1%, 1 W	1
R2517	AC			D 176176A 26.4 MEG 64959	4	RESISTOR, FIXED, FILM 26.4 MEG, P/M 1%, 1 W	1
R2503	XC			D 178618B 62.6 OHMS 64959	4	RESISTOR, FIXED WW, 62.6 OHMS, P/M 1/4%, 1/4 W	1
R2502 R2509	XC		469000-8228	D 178619B 75,000 OHMS 64959	4	RESISTOR, FIXED WW, 75,000 OHMS, P/M 1/4%, 1 W	2
R2509	AC		469000-8228	D 178619B	4	RESISTOR, FIXED	2

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REFERENCE SYMBOL		STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2511				75,000 OHMS 64959		75,000 OHMS, P/M 1/4%, 1 W	
R2514	FE038	XC	377500-1321	GA 50508C1000 64959	4	RESISTOR, FIXED COMPOSITION, P/M 5%, 100 OHMS, 1/4 W,	1
R2513	FE039	XC	377500-3121	GA 50508C4991 64959	4	RESISTOR, FIXED COMPOSITION, P/M 5%, 4990 OHMS, 1/4 W,	1
R2501	FE040	XC	377500-3287	GA 50508A5111 64959	4	RESISTOR, FIXED COMPOSITION, P/M 5%, 5110 OHMS, 1/4 W,	1
R2543 R2544	FE0403	XC		GA 50508A1623 64959	4	RESISTOR, FIXED COMPOSITION, P/M 5%, 162,000 OHMS, 1/4 W,	2
R2543 R2544	FE0404	AC		D 176176A 18,700 OHMS 64959	4	RESISTOR, FIXED, FILM 18,700 OHMS, P/M 1%, 1 W	2
R2542	FE0405	XC		GA 50084A1004 64959	4	RESISTOR, FIXED FILM, 1 MEG, P/M 1%, 1/2 W,	1
R2541 R2542	FE0407	CC		D 176176A 0.100 MEG 64959	4	RESISTOR, FIXED, FILM 0.1 MEG, P/M 1%, 1 W	2
	FE041	CC		G 234742 64959	3	RESISTOR ASSEMBLY C/O TERM BOARD MTG 20 TERMS & 6 RES, 3-1/4 LG X 3-1/16 W X 1/2 THK O/A, MTS BY FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
	FE042			G 234137 64959	4	TERMINAL BOARD C/O LAM THERMO PLSTC BOARD 3/32 THK MTG 20 TERMS 3-1/4 LG X 3-1/16 W X 1/2 THK O/A, MTS BY FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1

REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2540	FE0421	AC		GA 50086A5304 64959	4	X 2.437 CTRS RESISTOR, FIXED COMPOSITION, 5.30 MEG, P/M 1%, 2 W	1
R2501	FE0422	AC	3350	377500-3287	4	RESISTOR, FIXED COMPOSITION, P/M 5%, 5110 OHMS, 1/4 W	1
R2513	FE0424	AC	3350	377500-3121	4	RESISTOR, FIXED COMPOSITION, P/M 5%, 4990 OHMS, 1/4 W	1
R2514	FE0426	AC	3350	377500-1321	4	RESISTOR, FIXED COMPOSITION, P/M 5%, 100 OHMS, 1/4 W	1
R2502	FE0428	AC	3350	469000-8228	4	RESISTOR, FIXED WW, 75,000 OHMS, P/M 1/4%, 1 W	1
R2524				D 178619B 75,000 OHMS 64959 RC20GF273J MIL-R-11A	4	RESISTOR, FIXED COMPOSITION, 27,000 OHMS, P/M 5%, 1/2 W	1 2C F
R2507	F043	XB	3350	D 178618B 189 OHMS 64959	4	RESISTOR, FIXED WW, 189 OHMS, P/M 1/4%, 1/4 W	1
R2507	FE0435	XC		D 178618B 152 OHMS 64959	4	RESISTOR, FIXED WW, 152 OHMS, P/M 1/4%, 1/4 W	1
R2504	FE044	XC	3350	D 178618B 249 OHMS 64959	4	RESISTOR, FIXED WW, 249 OHMS, P/M 1/4%, 1/4 W	1
R2506	FE045	XA	3350	D 178618B 374 OHMS 64959	4	RESISTOR, FIXED WW, 374 OHMS, P/M 1/4%, 1/4 W	1
R2506	FE0455	XC		D 178618B	4	RESISTOR, FIXED	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2508	FE046	XA 3350		562 OHMS 64959	4	WW, 562 OHMS, P/M 1/4%, 1/4 W	1
R2508	FE0465	XC		D 178618B 437 OHMS 64959	4	RESISTOR, FIXED WW, 437 OHMS, P/M 1/4%, 1/4 W	1
R2505	FE047	XC 3350		D178618B 287 OHMS 64959	4	RESISTOR, FIXED	1
R2537	FE048	XB 3350		D 178618B 750 OHMS 64959	4	RESISTOR, FIXED WW, 750 OHMS, P/M 1/4%, 1/4 W	2
R2537	FE0483	XC		D 176176A 15,000 OHMS 64959	4	RESISTOR, FIXED FILM, 15,000 OHMS, P/M 1%, 1 W	1
R2538	FE0485	XC		D 176176A 68,100 OHMS 64959	4	RESISTOR, FIXED, FILM FILM, 68,100 OHMS, P/M 1%, 1 W	1
R2539	FE049	XB 3350	386000-5311	D 176176A .732 MEG 64959	4	RESISTOR, FIXED, FILM .732 MEG, P/M 1%, 1 W	1
R2539	FE0495	XC 3350	386000-4951	D 176176A .706 MEG 64959	4	RESISTOR, FIXED, FILM .706 MEG, P/M 1%, 1 W	1
R2536	FE050	XC 3350	386000-5451	D 176176A	4	RESISTOR, FIXED, FILM	1

REFERENCE SYMBOL		STOCK NUMBER			INCIDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
FE051	CC			.750 MEG 64959 G 234743 64959	3	.750 MEG, P/M 1%, 1 W RESISTOR ASSEMBLY C/O 3 RES MTD ON 3/32 THK LAM THERMOSETTING PLASTIC TERM BD, 2-1/2 LG X 2 W X 23/64 H O/A EXCL RES, TWO .152 DIA MTG HOLES SPD .937 C TO C	1
FE052	CA			G 234134 64959	4	TERMINAL BOARD LAM THERMOSETTING PLSTC SH 3/32 THK, C/O BOARD & 8 TERM, 2-1/2 LG X 2 W X 23/64 THK O/A, TWO .152 DIA MTG HOLES .937 C TO C	1
R2512	XA			D 178618B 18.75 OHMS 64959	4	RESISTOR, FIXED WW, 18.75 OHMS, P/M 1/4%, 1/4 W	1
R2503	AC			D 178618B 62.2 OHMS 64959	4	RESISTOR, FIXED WW, 62.2 OHMS, P/M 1/4%, 1/4 W	1
R2504	AC			D 178618B 249 OHMS 64959	4	RESISTOR, FIXED WW, 249 OHMS, P/M 1/4%, 1/4 W	1
R2512	XC			D 178618B 379 OHMS 64959	4	RESISTOR, FIXED WW, 379 OHMS, P/M 1/4%, 1/4 W	1
R2505	AC	3350		D 178618B 750 OHMS 64959	4	RESISTOR, FIXED WW, 750 OHMS, P/M 1/4%, 1/4 W	1
R2511	XC			D 178619B 75,000 OHMS	4	RESISTOR, FIXED WW, 75,000 OHMS, P/M 1/4%, 1 W	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2541	FE0545	XC		64959 GA 50084A1004 64959	4	RESISTOR, FIXED FILM, 1 MEG, P/M 1%, 1/2 W	1
	FE055			G 234773 64959	3	RESISTOR ASSEMBLY C/O TERM BOARD MTG 8 TERMS & 4 RES, 2-1/2 LG X 2 W X 1/2 THK O/A, MTS BY TWO .152 DIA HOLES .937 C TO C	1
	FE056			G 234134 64959	4	TERMINAL BOARD LAM THERMO PLSTC BOARD 3/32 THK, MTS 8 TERMS 2-1/2 LG X 2 W X 7/8 THK O/A, MTS BY TWO .152 DIA HOLES .937 C TO C	1
R2517	FE057	XC	386000-1118	D 176176A 499 OHMS 64959	4	RESISTOR, FIXED, FILM 499 OHMS, P/M 1%, 1 W	1
R2516	FE058	XC		D 176176A .499 MEG 64959	4	RESISTOR, FIXED, FILM .499 MEG, P/M 1%, 1 W	1
R2515	FE059	XC	098000-4791	RC20GF273J MIL-R-11A	4	RESISTOR, FIXED 27,000 OHMS	1
R2536	FE0592	AC	386000-5451	D 176176A 0.750 MEG 64959	4	RESISTOR, FIXED, FILM 0.750 MEG, P/M 1%, 1 W	1
R2537	FE0594	CC		D 176176A 15,000 OHMS 64959	4	RESISTOR, FIXED, FILM 15,000 OHMS, P/M 1%, 1 W	1
R2538	FE0596	AC		D 176176A 68,100 OHMS	4	RESISTOR, FIXED, FILM 68,100 OHMS, P/M 1%, 1 W	1

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		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2539	FE0598	AC	3350	386000-4951	64959	4 RESISTOR, FIXED, FILM 0.706 MEG, P/M 1%, 1 W	1
	FE060	XA			64959	3 WIRING HARNESS	1
	FE061	XA	8880	747000-3995	64959	4 TERMINAL, LUG	1
	FE062	CC			64959	3 BAR, RETAINING CRES BAR, .125 THK X 6 LG X 1/4 H O/A, SEVEN HOLES .112-40 NC-2B TAP HOLES IRREGULARLY SPD ONE SIDE	2

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	CLASS CODE	SERIAL NUMBER	PART NUMBER				
FF000	7CAC		GS 17466	2	ADAPTER, TEST PLUG IN TYPE BOX AND PROVIDES PLUG IN TYPE MTG FOR TESTING PACKAGE AMP, AL ALY SPOT-WELD & RIVET CONST, THREE DOORS, CONNECTORS IN REAR, 8 LG X 5-11/16 W X 5-7/8 D APPROX O/A	1	
			BA 10069-28	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/4 THK X 1/8 ID CTR HOLE	12	
			64959				
FF001	CC		BA 10069-28	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/4 THK X 1/8 ID CTR HOLE	12	
			64959				
FF002			BA 10069-26	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/16 THK, 1/8 ID CTR HOLE	8	
			64959				
FF003	XA		BA 98203-6	3	PIN, SPRING SPLIT TUBULAR, CRES, .562 LG X .062 OD	4	
			64959				
			79-012-062-0562				
			72962				
FF0035	AC	8880	BA 98327-4	3	TERMINAL LUG RD TONGUE END TYPE, W/TONGUES AT 90 DEG TO EA OTHER & EA BENT 30 DEG, 11/16 APPROX SQ X 11/64 THK O/A, TINNED FIN BRG, TWO 1/64 DIA HOLES FOR SOLDER CONN, TAKES #13 AWG SINGLE, .144 DIA CTR MTG HOLE	1	
			747000-3995				
			122 NO. 6				
			79963				
FF004	CC	8850	BA 98456	3	CONNECTOR, RECEPTACLE 32 MALE CONT RATED 5 AMP @ 600 VDC; STIGHT TYPE, POL RECT DIALLYL PHTHALATE INSERT W/CRES MTG PLT, 3-31/32 LG X 7/8 W X 31/32 H O/A, TWO 1/8 DIA MTG HOLES 3-5/8 C TO C	5	
			618660				
			64959				
			26-4100-32P				
			02660				
FF0045	AA		BA 98466-1	3	CONNECTOR, RECEPTACLE 32 MALE, FLAT, POL, STR TYPE, 3-31/32 LG X 1-1/64 W X 31/32 H O/A, RATED AT 5 AMPS,	2	
			64959				
			26-4101-32P				
P2601							
P2607							

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	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FF005			02660		750 VDC, RECT SHAPE, DIALYL PATHALATE W/SST MTG PL, TWO .125 DIA HOLES SPD 3.625 C TO C	4
			G 650145-1 64959 22NM-40 72962	3	NUT SELF LOCK RED NYLON & STL CAD PLT SELF LOCKING NYLON INSERT HEX TYPE, .250 ACROSS FLTS X .143 THK 4-40 NC-3B THD	
	CC		G 234139 64959	3	INSULATOR, PLATE LAM THERMO PLSTC SH 1/32 THK, VARNISH PRETREATMENT, 3-1/4 LG X 3-1/16 W O/A W/FOUR .152 DIA MTG HOLES ON 2.750 X 2.375 CTRS MKD G-234139	1
FF006	CA		G 234161 64959	3	INSULATOR PLATE LAM THERMO PLSTC SH 1/32 THK 5-9/16 LG X 3-1/16 W O/A, FOUR .152 DIA MTG HOLES SPD ON 2.375 X 5.062 CTRS MKD G-234161	1
FF0065	AA		G 235459 64959	3	HANDLE C/O CAM, BLOCK, SLEEVE & HANDLE, 5-1/8 LG X 1-5/8 W X .750 THK O/A, STL STAMPED W/1/16 H CHARACTERS	2
FF007	XC		G 234162 64959	4	CAM CRES BAR, .750 DIA X 3/16 THK O/A, .191 DIA HOLE .125 OFF CTR OF OD & .047 DIA HOLE .125 OFF CTR IN THK, STL STAMP MKD G-234162	4
FF008	XC		G 234163 64959	4	BLOCK CRES BAR, 3/4 LG X 3/8 W X 5/16 THK O/A, TWO .164-32 TAP HOLES 5/16 D SPACED .500 C TO C ON BOT, .191 DIA HOLE CENTRALLY LOC ON SIDE	4

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REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
FF009	XC			G 234164 64959	4	SLEEVE, SPACER AL ALY ROD, ALKALI ETCH FIN, 5/16 DIA X 9/32 LG O/A, .203 DIA HOLE THRU CTR	4
FF010	XC			G 234165 64959	4	HANDLE CRES BAR .187 DIA, 5-1/8 LG X 1-3/16 W X 5/8 THK O/A, 3/16 R BEND EA END 31/32 FROM END	2
FF0105	CC			G 235826 64959	3	BAR, RETAINING	2
FF011		7CWX		G 234249-6 64959	3	PLATE, IDENTIFICATION AL ALY SH, .032 THK, ETCHED, 3-9/16 LG X 1-9/16 W O/A, FOUR .136 DIA MTG HOLES SPD .1250 X 3.250 C TO C, MKD GS-17467 TEST ADAPTER	1
FF0115	AC			G 245720 64959	3	RESISTOR & TUBE ASSY	1
FF01152	AC			G 205654-4 64959	4	CLAMP, ELECTRICAL THERMOPLASTIC NYLON .045 THK, FUNGUS PROOF, SCR TYPE, .900 LG X 3/8 W X .465 H, 3/16 FROM CTR TO OPEN END OF CLAMP, MTD BY ONE .173 DIA HOLE, HOLDS 3/8 DIA MATL	1
FF01154	AC			G 245719 64959	4	TERMINAL BOARD LAMINATED PLSTC SHT 3/32 THK, W/4 TERMS, 3-1/4 LG X 3-1/16 W, MTS BY FOUR .152 DIA HOLES, SPECIAL MKGS 1/8 CHARACTERS	1
V2601	CC			J5718 MIL-E-1B	4	ELECTRON TUBE	1
R2625	AC			RC42GF513J	4	RESISTOR, FIXED	1

REFERENCE SYMBOL	STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FF012	7CWX		MIL-R-11A	3	COMPOSITION, 51,000 OHMS, P/M 5%, 2 W PANEL FRONT C/O 4 PINS, SWITCH, CONN, PANEL & LABEL, WELD CONST, AL ALY, .125 THK, ANOD PLUS GREY ENAMEL FIN, 8 LG X 5-11/16 W X 3-7/8 D APPROX O/A	1
			G 234175 64959			
FF0125 XA			BA 98203-1 64959 79-022-094-0500 72962	4	PIN, SPRING SPLIT TUBULAR, CRES, .500 LG X .094 OD O/A	4
			G 231285 64959			
S2601	CC 3360	073414689		4	SWITCH, SENSITIVE SPDT, 125/250 VAC RMS 5 AMP NOM LOAD, 30 VDC, 4 AMP RESISTIVE LOAD, 2.5 AMP INDUCTIVE LOAD, PHEN BASIC SWITCH BODY W/CRES FRAME, 27/32 LG X 7/16 W X 1-3/16 H O/A, 1/8 DIA CRES PLUNGER TYPE ACTUATOR, 3 SOLDER LUG TERMS, MTS BY 1/4-40 X 3/8 LG THD BUSH, TWO HEX NUTS 3/32 THK X 3/8 ACROSS FLATS & ONE 7/16 DIA X 1/32 THK CRES LKG RING	1
			G 234156 64959			
FF014 XA			G 234156 64959	4	PLATE, BACK CRES, .180 THK, 2-51/64 LG X 1-31/64 W O/A, MKD G-234156	1
FF015 AA			G 234414 64959	4	LABEL, INSTRUCTION INSTRUCTIONS PRINTED IN NATURAL AL ON DULL FIN AL FOIL 3-3/8 LG X 1-3/4 W O/A	1
FF016 CA 8850		354041	BL 722566 64959	4	CONNECTOR, RECEPTACLE 14. CONT, ONE CONN MATING END, FEMALE, 5 AMP, 1700V AC RMS, ARC RESISTANT PLSTC 1-1/4 LG X 7/16 W X 23/64 H, POLARIZED	1
J2601						

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REFERENCE SYMBOL	STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FF0165	AA		G 234175-2 64959	4	NON-LOCK TYPE, TWO MTG STUDS NO 4-40 THD, MALE PIN & ASSOC HWARE OMITTED PHOS BRZ CONT 20 AWG MAX WIRE SIZE ACCOM	1
FF017	XA		G 234169-4 64959	5	PANEL, FRONT AL ALY 1/8 THK, ANOD PLUS GREY ENAMEL FIN, 8 LG X 5-11/16 W X 3-1/8 D O/A, C/O PANEL & RECT TUB, WELD CONST, TWO .166 DIA MATING HOLES IN RECT TUB SPACED 1 FROM SIDE & 2.590 FROM FRONT PANEL	1
FF0173	AA		G 235827-2 64959	5	PANEL, FRONT	1
FF0175	AA		BA 98203-35 64959 79-022-094-0500 72962	5	PIN, SPRING SPLIT TUBULAR, CRES, .094 OD X 1/2 LG X .022 THK WALL, BOTH ENDS CHAMFERED	4
FF0177	CA		G 234156 64959	5	PLATE, BACK .180 THK CRES, 3-11/64 LG X 1-59/64 W O/A, ONE 1/4-40 TAPPED HOLE FOR MTG SWITCH, ONE .938 LG X 1/2 W CUTOUT W/.125 DIA CBORE HOLE ON EA END FOR MTG CONN, ONE 6-32 X 1/4 D HOLE CTR EA END FOR MTG	1
FF018			G 234242-1 64959	3	CASE, TEST ADAPTER C/O 3 DOORS, 1 FRAME, 1 PLATE & 8 FASTENERS, AL ALY, RIVET CONST, 6-3/4 LG X 4-5/8 W X 4-1/2 H APPROX O/A	1
FF019			BA 10091-760	4	PIN, STRAIGHT HEADED	4

REFERENCE SYMBOL	STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FFU020			64959		NIC STL, CAD PLT, 5/16 OD X .300 LG O/A	4
			BA 10091-966 64959	4	SPRING, HELICAL TORSION, MUW, CAD PLT, .045 DIA .991 LG X 5/16 W X .200 D O/A	
FFU021			G 650145-1 64959	4	NUT, SELF LOCK	4
			22NM-40 72962		RED NYLON & STL CAD PLT SELF LOCKING NYLON INSERT HEX TYPE, .250 ACROSS FLTS X .143 THK, 4-40 NC-3B THD	
FF022			G 234243 64959	4	PLATE	1
					AL ALY, .064 THK, ALKALI ETCH FIN, 6-1/16 LG X 4-5/16 W O/A W/EIGHT .125 DIA & CSK 82 DEG TO .225 DIA HOLES, FOUR ON 4.687 X 3.750 CTRS & FOUR ON 3.250 X 1.250 CTRS, RECT HOLE 3 LG X 1 W IN CTR OF PLATE	
FF023			G 234168 64959	4	FRAME	1
					AL ALY, ANGLE CONST, ALKALI ETCH FIN, WELDED, 4-7/16 LG X 4-3/8 W X 6-11/16 D O/A, MKD G-234168	
FFU0233	XA		G 234839 64959	3	WIRING HARNESS	1
FFU0235	XA	8880	BA 98327-4 64959	4	TERMINAL, LUG	1
FF024			G 234633 64959	3	RESISTOR ASSEMBLY	1
					C/O LAM THERMO PLSTC BOARD MTG 36 TERMS & 12 RESISTORS, ONE SIDE ONLY, 5-9/16 LG X 3-1/16 W X 3/4 THK APPROX O/A, MKD G-234633, MTS BY FOUR .152 DIA HOLES ON 5.062 X 2.437 CTRS	
FF025	CA		G 234159	4	TERMINAL, BOARD	1

REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASST.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2623	FF0255 CC			64959 D 178618B 22.1 OHMS 64959	4	C/O 3/32 THK LAM THERMO PLSTC BOARD MTG 36 TERMS, 5-9/16 LG X 3-1/16 W X 7/16 THK APPROX O/A, FOUR .152 DIA HOLES ON 5.062 X 2.375 CTRS, INCL 12 RUB STAMP MKGS RESISTOR, FIXED 22.1 OHMS, P/M .25%, 1/4 W	1
R2616	FF026 CC			D 178618B 249 OHMS 64959	4	RESISTOR, FIXED 249 OHMS P/M .25%, 1/4 W	1
R2616	FF0265 XC	3350		D 178618B 750 OHMS 64959	4	RESISTOR, FIXED 750 OHMS, P/M .25%, 1/4 W	1
R2619	FF027 XA	3350	44700C-5518	D 178618B 365 OHMS 64959	4	RESISTOR, FIXED 365 OHMS P/M .25%, 1/4 W	1
R2619	FF0275 AA			D 178618B 16.9 OHMS 64959	4	RESISTOR, FIXED 16.9 OHMS, P/M .25%, 1/4 W	1
R2618	FF028 XA	3350		D 178618B 634 OHMS 64959	4	RESISTOR, FIXED 634 OHMS P/M .25%, 1/4 W	1
R2618	FF0285 XC			D 178618B 24.8 OHMS 64959	4	RESISTOR, FIXED 24.8 OHMS, P/M .25%, 1/4 W	1
R2618	FF0287 AC			D 178618B 24.0 OHMS 64959	4	RESISTOR, FIXED 24.0 OHMS, P/M .25%, 1/4 W	1

REFERENCE SYMBOL		STOCK NUMBER			INCIDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2617	FF029	XA	3350	D 178618B 750 OHMS 64959	4	RESISTOR, FIXED 750 OHMS P/M .25%, 1/4 W	1
R2617	FF0293	AA		D 178618B 114 OHMS 64959	4	RESISTOR, FIXED 114 OHMS, P/M .25%, 1/4 W	1
R2625	FF0295	XC		D 178618B 1000 OHMS 64959	4	RESISTOR, FIXED 1000 OHMS, P/M .25%, 1/4 W	1
R2624	FF0297	XC		D 178619B 7.32 OHMS 64959	4	RESISTOR, FIXED 7.32 OHMS, P/M .25%, 1/4 W	1
R2624	FF0299	AC		D 178618B 73.2 OHMS 64959	4	RESISTOR, FIXED 73.2 OHMS, P/M .25%, 1/4 W	1
R2615	FF030	XA	3350	D 178618B 3360 OHMS 64959	4	RESISTOR, FIXED 3360 OHMS P/M .25%, 1/4 W	1
R2615	FF0305	XC		D 176176A 11,100 OHMS 64959	4	RESISTOR, FIXED 11,100 OHMS, P/M 1%, 1 W	1
R2615	FF0307	AC		D 176176A 511 OHMS 64959	4	RESISTOR, FIXED 511 OHMS, P/M 1%, 1 W	1
R2614	FF031	XA	3350	D 178618B 4070 OHMS 64959	4	RESISTOR, FIXED 4070 OHMS P/M .25%, 1/4 W	1
R2614	FF0315	XC		D 176176A	4	RESISTOR, FIXED	1

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REFERENCE SYMBOL		STOCK NUMBER			INCIDENT	DESCRIPTION	UNITS PER ASSEMBLY
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2614	FF0317 AC			16,700 OHMS 64959 D 176176A 732 OHMS 64959	4	16,700 OHMS, P/M 1%, 1 W RESISTOR, FIXED 732 OHMS P/M 1%, 1 W	1
R2612	FF032 XA	3350	447000-4239	D 178618B 5420 OHMS 64959	4	RESISTOR, FIXED 5420 OHMS P/M .25%, 1/4 W	1
R2612	FF0325 XC			D 176176A 34,400 OHMS 64959	4	RESISTOR, FIXED 34,400 OHMS, P/M 1%, 1 W	1
R2612	FF0327 AC			D 176176A 1,270 OHMS 64959	4	RESISTOR, FIXED 1,270 OHMS P/M 1%, 1 W	1
R2613	FF033 XA	3350	447000-5518	D 178618B 6650 OHMS 64959	4	RESISTOR, FIXED 6650 OHMS, P/M .025%, 1/4 W	1
R2613	FF0335 XC	3350	386000-1221	D 176176A 41,200 OHMS 64959	4	RESISTOR, FIXED 41,200 OHMS, P/M 1%, 1 W	1
R2613	FF0337 AC			D 176176A 1,650 OHMS 64959	4	RESISTOR, FIXED 1,650 OHMS P/M 1%, 1 W	1
R2609	FF034 XA	3350		D 178619B 14,000 OHMS 64959	4	RESISTOR, FIXED 14,000 OHMS, P/M .025%, 1/2 W	1
R2609	FF0345 CC	3350		D 176176A	4	RESISTOR, FIXED	1

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REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2609	FF0347 AC	3350	386000-1157	.147 MEG 64959 D 176176A 14,500 OHMS 64959	4	.147 MEG, P/M 1%, 1 W RESISTOR, FIXED 14,500 OHMS P/M 1%, 1 W	1
R2610	FF035 XA	3350	469000-8187	D 178619B 69,000 OHMS 64959	4	RESISTOR, FIXED 69,000 OHMS, P/M .025%, 1 W	1
R2610	FF0355 XC			D 176176A .312 MEG 64959	4	RESISTOR, FIXED .312 MEG, P/M 1%, 1 W	1
R2610	FF0357 AC			D 176176A 16,200 OHMS 64959	4	RESISTOR, FIXED 16,200 OHMS P/M 1%, 1 W	1
R2611	FF036 CC	3350	469000-8187	D 178619B 73,200 OHMS 64959	4	RESISTOR, FIXED 73,200 OHMS, P/M .025%, 1 W	1
R2611	FF0365 XC			D 176176A .542 MEG 64959	4	RESISTOR, FIXED .542 MEG, P/M 1%, 1 W	1
R2611	FF0366 AC			D 176176A 16,500 OHMS 64959	4	RESISTOR, FIXED 16,500 OHMS P/M 1%, 1 W	1
R2601	FF0367 XC			D 178618B 14,700 OHMS 64959	4	RESISTOR, FIXED 14,700 OHMS, P/M 25%, 1/4 W	1
R2601	FF0369 AC			D 178619B	4	RESISTOR, FIXED	1

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REFERENCE SYMBOL		STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2620	FF037	XC		10,000 OHMS 64959	4	10,000 OHMS P/M .025%, 1 W	1
	FF038	CC		GA 50508C5111 64959	3	RESISTOR, FIXED, FILM 5,110 OHMS, P/M 5%, 1/4 W,	1
				G 234632 64959	4	RESISTOR ASSEMBLY C/O LAM THERMO PLSTC BOARD MTG 20 TERMS & 9 RESISTORS, ONE SIDE ONLY, 3-1/4 LG X 3-1/16 W X 3/4 THK APPROX O/A, MTS BY FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS, MKD G-234632	1
	FF039	CC		G 234137 64959	4	TERMINAL BOARD C/O LAM THERMO PLSTC BOARD 3/32 THK MTG 20 TERMS, VARNISH PRETREAT, 3-1/4 LG X 3-1/16 W X 7/16 THK APPROX O/A, FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
R2608	FF040	XA	447000-1991	D 178618B 13.2 OHMS 64959	4	RESISTOR, FIXED 13.2 OHMS P/M .25%, 1/4 W	1
R2608	FF0405	AA		D 178618B 26.4 OHMS 64959	4	RESISTOR, FIXED 26.4 OHMS, P/M .25%, 1/4 W	1
R2607	FF041	XA	447000-4182	D 178618B 569 OHMS 64959	4	RESISTOR, FIXED 569 OHMS P/M .25%, 1/4 W	1
R2607	FF0415	AA		D 178618B 237 OHMS 64959	4	RESISTOR, FIXED 237 OHMS, P/M .25%, 1/4 W	1
R2606	FF042	CA	3350	D 178618B	4	RESISTOR, FIXED	1

REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2605	FF043 CA	3350		941 OHMS 64959 D 178618B 2710 OHMS 64959	4	941 OHMS P/M .25%, 1/4 W RESISTOR, FIXED 2710 OHMS P/M .25%, 1/4 W	1
R2604	FF044 CA	3350		D 178618B 4590 OHMS 64959	4	RESISTOR, FIXED 4590 OHMS, P/M .025%, 1/4 W	1
R2601	FF045 XA	3350		D 178618B 10,000 OHMS 64959	4	RESISTOR, FIXED 10,000 OHMS, P/M 1/4%, 1/4 W	1
R2622	FF0455 AA			D 178618B 316 OHMS 64959	4	RESISTOR, FIXED 316 OHMS, P/M 1/4%, 1/4 W	1
R2603	FF046 CC	3350		D 178619B 18,000 OHMS 64959	4	RESISTOR, FIXED 18,000 OHMS, P/M 1/4%, 1 W	1
R2602	FF047 XA	3350	469000-7685	D 178619B 41,700 OHMS 64959	4	RESISTOR, FIXED 41,700 OHMS, P/M 1/4%, 1 W	1
R2602	FF0475 AA			D 178619B 43,700 OHMS 64959	4	RESISTOR, FIXED 43,700 OHMS, P/M 1/4%, 1 W	1
R2621	FF048 XA	3350	384500-4281	GA 50084A6352 64959	4	RESISTOR, FIXED FILM, 63,500 OHMS P/M 1%, 1/2 W,	1
R2621	FF0485 CC			GA 50084A4222 64959	4	RESISTOR, FIXED FILM, 42,200 OHMS, P/M 1%, 1/2 W,	1

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REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		INCIDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
FG000	7CAC		GS 17467 64959	2	ADAPTER, TEST PLUG IN TYPE BOX AND PROVIDES PLUG IN TYPE MTG FOR TESTING PACKAGE AMP, AL ALY SPOT-WELD & RIVET CONST, THREE DOORS, CONNECTORS IN REAR, 8 LG X 5-11/16 W X 5-7/8 D APPROX O/A	1
			BA 10069-28 64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/4 THK X 1/8 ID CTR HOLE	8
			BA 10069-26 64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/16 THK, 1/8 ID CTR HOLE	8
			BA 98203-6 64959 79-012-062-0562 72962	3	PIN, SPRING SPLIT TUBULAR, CRES, .562 LG X .062 OD	4
FG0035	AC 8880	747000-3955	BA 98327-4 64959 122 NO. 6 79963	3	TERMINAL LUG RD TONGUE END TYPE, W/TONGUES AT 90 DEG TO EA OTHER & EA BENT 30 DEG, 11/16 APPROX SQ X 11/64 THK O/A, TINNED FIN BRS, TWO 1/64 DIA HOLES FOR SOLDER CONN, TAKES #13 AWG SINGLE, .144 DIA CTR MTG HOLE	1
			BA 98456 64959 26-4100-32P 02660	3	CONNECTOR, RECEPTACLE 32 MALE CONT RATED 5 AMP @ 600 VDC, STGHT TYPE, POL RECT DIALLYL PHTHALATE INSERT W/CRES MTG PLT, 3-31/32 LG X 7/8 W X 31/32 H O/A, TWO 1/8 DIA MTG HOLES 3-5/8 C TO C	5
FG0045	CC		BA 98466-1 64959 26-4101-32P	3	CONNECTOR, RECEPTACLE 32 MALE, FLAT, POL, STR TYPE, 3-31/32 LG X 1-1/64 W X 31/32 H O/A, RATED AT 5 AMPS,	2

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		INDEXT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
P2707			02660		750 VDC, RECT SHAPE, DIALYL PATHALATE W/SST MTG PL, TWO .125 DIA HOLES SPD C TO C	
			64959			
	FG005		G 650145-1	3	NUT SELF LOCK	4
			64959		RED NYLON & STL CAD PLT SELF LOCKING NYLON INSERT HEX TYPE, .250 ACROSS FLTS X .143	
			22NM-40		THK 4-40 NC-3B THD	
			72962			
	FG0055	CC	G 234139	3	INSULATOR, PLATE	1
			64959		LAM THERMO PLSTC SH, 1/32 THK, VARNISH PRETREATMENT, 3-1/4 LG X 3-1/16 W O/A, W/FOUR .152 DIA MTG HOLES ON 2.750 X 2.375 CTRS, MKD G-234139	
	FG006	CA	G 234161	3	INSULATOR PLATE	1
			64959		LAM THERMO PLSTC SH 1/32 THK 5-9/16 LG X 3-1/16 W O/A, FOUR .152 DIA MTG HOLES SPD ON 2.375 X 5.062 CTRS MKD G-234161	
	FG0065	AA	G 235459	3	HANDLE	2
			64959		C/O STL HANDLE W/BLOKCS, CAMS & SPACER SLEEVES, 5-1/8 LG X 1.563 APPROX H O/S	
	FG007	CA	G 234162	4	CAM	4
			64959		CRES BAR, .750 DIA X 3/16 THK O/A, .191 DIA HOLE .125 OFF CTR OF OD & .047 DIA HOLE .125 OFF CTR IN THK, STL STAMP MKD G-234162	
	FG008	CA	G 234163	4	BLOCK	4
			64959		CRES BAR, 3/4 LG X 3/8 W X 5/16 THK O/A, TWO .164-32 TAP HOLES 5/16 D SPACED .500 C TO C ON BOT, .191 DIA HOLE CENTRALLY LOC ON SIDE	

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REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		IDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
FG009	CA		G. 234164 64959	4	SLEEVE, SPACER AL ALY ROD, ALKALI ETCH FIN, 5/16 DIA X 9/32 LG O/A .203 DIA HOLE THRU CTR	4
FG010	CA		G 234165 64959	4	HANDLE CRES BAR .187 DIA, 5-1/8 LG X 1-3/16 W X 5/8 THK O/A, 3/16 R BEND EA END 31/32 FROM END	2
FG0105	CC		G 235826 64959	3	BAR, RETAINING CRES BAR, .125 THK X 6 LG X 1/4 H O/A, SEVEN HOLES .112-40 NC-2B TAP HOLES IRREGULARLY SPD ONE SIDE	2
FG011	7CWX		G 234249-7 64959	3	PLATE, IDENTIFICATION AL ALY SH, .032 THK, ETCHED, 3-9/16 LG X 1-9/16 W O/A, FOUR .136 DIA MTG HOLES SPD .1250 X 3.250 C TO C, MKD GS-17467 TEST ADAPTER	1
FG012	CA	7CWX	G 234172 64959	3	PANEL FRONT C/O PANEL, CONN, CONT & SWITCH, 8 LG X 5-11/16 W X 3-3/4 D APPROX O/A, MKD ADAPTER FOR GS-15433 AMPLIFIER SUBASSEMBLY	1
FG0125	XA		BA 98203-1 64959 79-022-094-0500 72962	4	PIN, SPRING CRES, .500 LG X .094 OD O/A, SPLIT TUBULAR	4
FG013	CA		G 231285 64959	4	SWITCH, SENSITIVE SPDT, 125/250 VAC RMS, 5 AMP NOM LOAD, 30 VDC, 4 AMP RESISTIVE LOAD, 2.5 AMP INDUCTIVE LOAD, PHEN BASIC SWITCH BODY W/CRES FRAME, 27/32 LG X 7/16 W X 1-3/16 H O/A, 1/8 DIA CRES PLUNGER TYPE ACTUATOR,	1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		INCIDENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
FG014	XA	7CWX	G 234157 64959	4	3 SOLDER LUG TERM, MTS BY 1/4-40 X 3/8 LG THD BUSH, TWO HEX NUTS 3/32 THK X 3/8 ACROSS FLATS & ONE 7/16 DIA X 1/32 THK CRES LKG RING	1
FG0143	AA		G 234414 64959	4	PLATE, BACK CRES, .180 THK, 3-11/16 LG X 1-59/64 W X 1/2 THK O/A, 1/8 CHARACTER MKG BOTH SIDES	1
FG0145	CA	8850 354041	BL 722566 64959	4	LABEL, INSTRUCTION INSTRUCTIONS PRINTED IN NATURAL AL ON DULL FIN AL FOIL, 3-7/8 LG X 1-3/4 W O/A	1
FG015	CA	7CWX G 234143	G 234143 64959	4	CONNECTOR, RECEPTACLE 14 CONT, ONE CONN MATING END, FEMALE, 5 AMP, 1700V AC RMS, ARC RESISTANT PLSTC, 1-1/4 LG X 7/16 W X 23/64 H, POLARIZED NON LOCK TYPE, TWO MIG STUDS, NO 4-40 THD, MALE PIN AND ASSOC HWARE OMITTED, PHOS BRZ CONT, 20 AWG MAX WIRE SIZE ACCOM	1
FG0153	AA		G 234172-2 64959	4	CONTACT, ELECTRICAL C/O SPRING, CONT, TERM LUG AND INSUL 1-11/16 LG X 1/4 W X 11/16 D APPROX O/A, SOLDER CONST, MKD G-234143	1
FG0155	XA		G 234169-2 64959	5	PANEL, FRONT C/O 4 PINS, STL PLATE & AL ALY PANEL, 8 LG X 5-11/16 W X 3-1/8 D O/A PANEL, FRONT AL ALY, ANOD PLUS GREY ENAMEL FIN, WELD CONST, C/O PANEL & RECT TUB 8 LG X 5-11/16 W X 3-1/8 D APPROX O/A, MATING .166 DIA HOLES IN TUB BASE 1 FROM SIDE & 2.652 FROM FRONT PANEL	1

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		SERIAL NUMBER	PART NUMBER			
FG0156	AA		BA 98203-35 64959 79-022-094-0500 72962	5	PIN, SPRING SPLIT TUBULAR, CRES, .094 OD X 1/2 LG X .022 THK WALL, BOTH ENDS CHAMFERED	4
FG0157	AA		G 235827-1 64959	5	PANEL, FRONT AL ALY ANOD PLUS LT GRAY ENAMEL FIN, WELD CONST, C/O PANEL & RECT TUBING, 8 LG X 5-11/16 W X 3-1/8 D APPROX O/A, MATING .166 DIA HOLES IN TUBE BASE 1 FROM SIDE & 2.652 FROM FRONT PANEL	1
FG0158	CA		G 234157 64959	5	PLATE, BACK .180 THK CRES, 3-11/64 LG X 1-59/64 W X 1/2 THK O/A, ONE 1/4-40 TAPPED HOLE FOR MTG SWITCH, ONE .375 DIA HOLE FOR MTG CONTACT, ONE 1/2 W X .938 LG CUTOUT W/TWO .125 DIA C-BORE HOLES FOR MTG CONN, ONE 6-32 X 1/4 D HOLE ON EACH END FOR MTG	1
FG016	CA		G 234242-1 64959	3	CASE, TEST ADAPTER C/O 3 DOORS, FRAME, PLATE & 8 FASTENERS AL ALY RIVET CONT, 6-3/4 LG X 4-5/8 W X 4-1/2 H APPROX O/A	1
FG017			BA 10091-760 64959	4	PIN, STRAIGHT HEADED NIC STL, CAD PLT, 5/16 OD X .300 LG O/A	4
FG018			BA 10091-966 64959	4	SPRING, HELICAL TORSION, MUW, CAD PLT, .045 DIA, .991 LG X 5/16 W X .200 D O/A	4
FG0185	AA		G 650145-1 64959 22NM-40 72962	4	NUT, SELF LOCK RED NYLON & STL CAD PLT SELF LOCKING NYLON INSERT, HEX TYPE, .250 ACROSS FLTS X .143 THK, 4-40 NC-3B THD	4

REFERENCE SYMBOL		STOCK NUMBER			INDEXT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
FG019	CA			G 234243 64959	4	PLATE AL ALY, .064 THK, ALKALI ETCH FIN 6-1/16 LG X 4-5/16 W O/A, W/EIGHT .125 DIA & CSK 82 DEG TO .225 DIA HOLES, FOUR ON 4.687 X 3.750 CTRS & FOUR ON 3.250 X 1.250 CTRS, RECT HOLE 3 LG X 1 W IN CTR OF PLATE	1
FG020				G 234168 64959	4	FRAME AL ALY, ANGLE CONST, ALKALI ETCH FIN, WELDED, 4-7/16 LG X 4-3/8 W X 6-11/16 D O/A, MKD G-234168	1
FG021	XA			G 234179-1 64959	4	DOOR AL ALY SH, .064 THK, ALKALI ETCH FIN, C/O DOOR AND PIN, 4 LG X 3-25/32 W X .349 THK APPROX O/A, MKD G-234179-1, FOUR .136 DIA & CSK 82 DEG TO .225 DIA ON 2.750 X 2.375 CTRS, ONE .140 DIA HOLE SPACED 1/2 X 1-7/32 ON OPP END FROM ROLLED EDGE	2
FG022	XA			G 234133-1 64959	5	PIN CRES WIRE, SPG TEMPER .093 DIA X 4 LG O/A	1
FG023	XA			G 234179-6 64959	5	DOOR AL ALY SHT, .064 THK, ALKALI ETCH FIN, 3-3/4 LG X 3-25/32 W X .349 THK APPROX O/A, ONE END ROLLED FOR .093 DIA PIN, ONE .140 DIA HOLE SPACED 1/2 X 1-7/32 ON OPP END FROM ROLLED EDGE, FOUR .136 DIA & CSK 82 DEG TO .225 DIA ON 2.750 X 2.375 CTRS MKD G-234179-6	1
FG024	XA			G 234180-1 64959	4	DOOR AL ALY SHT .064 THK, ALKALI ETCH FIN, C/O DOOR & PIN, 6-5/16 LG X 3-25/32 W X .349 THK APPROX O/A, MKD G-234180-1, TWO .140	1

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REFERENCE SYMBOL	STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSEMBLY
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FG025	XA		G 234133-2 64959	5	DIA HOLES 5/16 FROM END OPP ROLLED EDGE SPACED 4.062 C TO C, FOUR .136 DIA & CSK 82 DEG TO .225 DIA ON 5.062 X 2.375 CTRS	1
FG026	XA		G 234180-6 64959	5	PIN CRES WIRE, SPG TEMPER .093 DIA X 6-5/16 LG O/A DOOR AL ALY SHT, .064 THK, ALKALI ETCH FIN, 6-1/16 LG X 3-25/32 W X .349 THK APPROX O/A, FOUR .136 DIA HOLES SPD ON 2.375 X 5.062 CTRS, TWO .140 DIA HOLES 5/16 FROM END OF ROLLED EDGE SPACED 4.062 C TO C & CSK 82 DEG TO .225 DIA	1
FG0263	AA		G 234840 64959	3	WIRING HARNESS	1
FG0265	AA		BA 98327-4 64959 122 NO. 6 79963	4	TERMINAL, LUG RD TONGUE END TYPE, W/TONGUES AT 90 DEG TO EA OTHER & EA BENT 30 DEG, 11/16 APPROX SQ X 11/64 THK O/A, TINNED FIN BRs, TWO 1/64 DIA HOLES FOR SOLDER CONN, TAKES #13 AWG SINGLE, .144 DIA CTR MTG HOLE	1
FG027			G 234474 64959	3	RESISTOR ASSEMBLY C/O TERM BOARD MTG, 14 RESISTORS ONE SIDE ONLY, 5-9/16 LG X 3-1/16 W X 5/8 THK APPROX O/A, MTS BY FOUR .152 DIA HOLES SPACED ON 5.062 X 2.437 CTRS	1
FG028	AA		G 234159 64959	4	TERMINAL BOARD C/O LAM THERMO PLSTC BOARD MTG 36 TERMS, 5-9/16 LG X 3-1/16 W X 7/16 THK O/A, FOUR .152 DIA HOLES SPACED ON 5.062 X 2.375	1

REFERENCE SYMBOL		STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2701	FG029	CA	447000-43467	D 178618B 845 OHMS 64959	4	CTRS RESISTOR, FIXED 845 OHMS P/M .25%, 1/4 W	1
R2702	FG030	CA		D 178618B 158 OHMS 64959	4	RESISTOR, FIXED 158 OHMS P/M .25%, 1/4 W	1
R2712	FG031	XA		D 178618B 1010 OHMS 64959	4	RESISTOR, FIXED 1010 OHMS P/M .25%, 1/4 W	1
R2712	FG0315	AA		D 178618B 1000 OHMS 64959	4	RESISTOR, FIXED 1000 OHMS P/M .25%, 1/4 W	1
R2713	FG032	XA		D 178618B 681 OHMS 64959	4	RESISTOR, FIXED 681 OHMS P/M .25%, 1/4 W	1
R2713	FG0325	AA		D 178618B 768 OHMS 64959	4	RESISTOR, FIXED 768 OHMS P/M .25%, 1/4 W	1
R2714	FG033	XA		D 178618B 309 OHMS 64959	4	RESISTOR, FIXED 309 OHMS P/M .25%, 1/4 W	1
R2714	FG0335	XC		D 178618B 234 OHMS 64959	4	RESISTOR, FIXED 234 OHMS P/M .25%, 1/4 W	1
R2710	FG034	XA		D 178618B 169 OHMS	4	RESISTOR, FIXED 169 OHMS P/M .25%, 1/4 W	1

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REFERENCE SYMBOL		STOCK NUMBER			INDEXT	DESCRIPTION	UNITS PER ASST.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2710	FG0345 CC	3350		D 178618B 189 OHMS 64959	4	RESISTOR, FIXED 189 OHMS P/M .25%, 1/4 W	1
R2711	FG035 XA	3350		D 178618B 76.8 OHMS 64959	4	RESISTOR, FIXED 76.8 OHMS P/M .25%, 1/4 W	1
R2711	FG0355 XC			D 178618B 76.6 OHMS 64959	4	RESISTOR, FIXED 76.6 OHMS, P/M .25%, 1/4 W	1
R2711	FG0357 AC			D 178618B 57.6 OHMS 64959	4	RESISTOR, FIXED 57.6 OHMS, P/M .25%, 1/4 W	1
R2704	FG036 CA	3350		D 178619C 73,740 OHMS 64959	4	RESISTOR, FIXED 73,740 OHMS, P/M .10%, 1 W	1
R2709	FG037 XA	3350	386000-1134	D 176176A 3610 OHMS 64959	4	RESISTOR, FIXED 3610 OHMS, P/M 1%, 1 W	1
R2709	FG0375 AA			D 176176A 3480 OHMS 64959	4	RESISTOR, FIXED 3480 OHMS, P/M 1%, 1 W	1
R2706	FG038 CA	3350	386000-6745	D 176176A 4.99 MEG 64959	4	RESISTOR, FIXED 4.99 MEG, P/M 1%, 1 W	1
R2707	FG039 XA	3350	386000-1249	D 176176A 54,900 OHMS	4	RESISTOR, FIXED 54,900 OHMS, P/M 1%, 1 W	1

REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER			INQENT	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER				
R2707	FG0395 AA		D 176176A 26,700 OHMS 64959	64959	4	RESISTOR, FIXED 26,700 OHMS, P/M 1%, 1 W	1
R2708	FG040 CA	386000-12485	D 176176A 53,600 OHMS 64959	64959	4	RESISTOR, FIXED 53,600 OHMS, P/M 1%, 1 W	1
R2705	FG041 CA	386000-3515	D 176176A .499 MEG 64959	64959	4	RESISTOR, FIXED .499 MEG, P/M 1%, 1 W	1
R2703	FG042 CC	377500-3911	GA 50508A3012 64959	64959	4	RESISTOR, FIXED FILM, 30,100 OHMS P/M 1%, 1/4 W,	1
	FG043 CC		G 234597 64959	64959	3	RESISTOR ASSEMBLY C/O TERM BOARD AND SIX RESISTORS MTD ONE SIDE, 3-1/4 LG X 3-1/16 W X 1/2 THK APPROX O/A, MTS BY FOUR .152 DIA HOLES SPACED ON 2.750 X 2.375 CTRS	1
	FG044 CC		G 234137 64959	64959	4	TERMINAL BOARD LAM THERMO PLSTC 3/32 THK VARNISH PRETREATMENT, 3-1/4 LG X 3-1/16 W X 7/16 THK O/A, MTS 20 TERMINALS, FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
R2716 R2717 R2718 R2719	FG045		D 178618B 10,000 OHMS 64959	64959	4	RESISTOR, FIXED 10,000 OHMS P/M .25%, 1/4 W	4
R2715	FG046 CA	386000-6571	D 176176A 2.98 MEG		4	RESISTOR, FIXED 2.98 MEG, P/M 1%, 1 W	1

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REFERENCE SYMBOL		STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2720	FG047 CB	3350	386000-6551	D 176176A 2.91 MEG 64959	4	RESISTOR, FIXED 2.91 MEG, P/M 1%, 1 W	1
R2721	FG048 AA			D 176176A 594,000 64959	4	RESISTOR, FIXED 594,000 OHMS, P/M 1%, 1 W	1

REFERENCE SYMBOL		STOCK NUMBER			INVENT	DESCRIPTION	UNITS PER ASSEMBLY
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
FH000		7CAC		GS 17468 64959	2	ADAPTER, TEST PLUG IN TYPE BOX AND PROVIDES PLUG IN TYPE MTG FOR TESTING PACKAGE AMP, AL ALY SPOT-WELD & RIVET CONST, THREE DOORS, CONNECTORS IN REAR, 8 LG X 5-11/16 W X 5-7/8 D APPROX O/A	1
				BA 10069-28 64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/4 THK X 1/8 ID CTR HOLE	12
				BA 10069-26 64959	3	BUSHING, PLAIN SLEEVE AL, ALKALI DIP, 1/4 OD X 1/16 THK, 1/8 ID CTR HOLE	12
C2803		AC 3330	376144048	CM35B103J MIL-C-5A	3	CAPACITOR, FIXED MICA DIELECTRIC, 10,000 OHMS, P/M 5%, 300 VDCW	1
FH003	XA			BA 98203-6 64959 79-012-062-0562 72962	3	PIN, SPRING SPLIT TUBULAR, CRES, .562 LG X .062 OD	4
				BA 98456 64959 26-4100-32P 02660	3	CONNECTOR, RECEPTACLE 32 MALE CONT RATED 5 AMP @ 600 VDC, STGHT TYPE, POL RECT DIALLYL PHTHALATE INSERT W/CRES MTG PLT, 3-31/32 LG X 7/8 W X 31/32 H O/A, TWO 1/8 DIA MTG HOLES 3-5/8 C TO C	5
P2802 P2803 P2804 P2805 P2806		CA 8850	618660	BA 98466-1 64959 26-4101-32P 02660	3	CONNECTOR, RECEPTACLE 32 MALE, FLAT, POL, STR TYPE, 3-31/32 LG X 1-1/64 W X 31/32 H O/A, RATED AT 5 AMPS, 750 VDC, RECT SHAPE, DIALLYL PHTHALATE W/SST MTG PL, TWO .125 DIA HOLES SPD 3.625 C TO C	2
P2801 P2801		CC					

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REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		INDET	DESCRIPTION	UNITS PER ASSY.
		SERIAL NUMBER	PART NUMBER			
FH005			G 650145-1 64959	3	NUT SELF LOCK RED NYLON & STL CAD PLT SELF LOCKING NYLON INSERT HEX TYPE, .250 ACROSS FLTS X .143 THK 4-40 NC-3B THD	4
FH005	CC		G 234139 64959	3	INSULATOR, PLATE LAM THERMO PLSTC SH 1/32 THK, VARNISH PRETREAT, 3-1/4 LG X 3-1/16 W O/A, W/FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS, MKD G-234139	1
FH005	AC		G 234139-2 64959	3	INSULATOR, PLATE LAM THERMO PLSTC SH 1/32 THK, VARNISH PRETREATMENT, 3-1/4 LG X 3-1/16 W O/A, W/ONE .375 DIA HOLE & FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS, MKD	1
FH006	CA		G 234161 64959	3	INSULATOR PLATE LAM THERMO PLSTC SH 1/32 THK 5-9/16 LG X 3-1/16 W O/A, FOUR .152 DIA MTG HOLES SPD ON 2.375 X 5.062 CTRS MKD G-234161	1
FH006	AA		G 235459	3	HANDLE C/O STL HANDLE W/BLOCKS, CAMS & SPACER SLEEVE, 5-1/8 LG X 1.563 APPROX H O/A	2
FH007	CA		G 234162 64959	4	CAM CRES BAR, .750 DIA X 3/16 THK O/A, .191 DIA HOLE .125 OFF CTR OF OD & .047 DIA HOLE .125 OFF CTR IN THK, STL STAMP MKD G-234162	4
FH008	CA		G 234163 64959	4	BLOCK CRES BAR, 3/4 LG X 3/8 W X 5/16 THK O/A, TWO .164-32 TAP HOLES 5/16 D SPACED .500 C TO C ON BOT, .191 DIA HOLE CENTRALLY	4

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REFERENCE SYMBOL	CLASS CODE	STOCK NUMBER		IDENT	DESCRIPTION	UNITS PER ASST.
		SERIAL NUMBER	PART NUMBER			
FH009 CA			G 234164	4	LOC ON SIDE	4
			64959		4 SLEEVE, SPACER AL ALY ROD, ALKALI ETCH FIN, 5/16 DIA X 9/32 LG O/A .203 DIA HOLE THRU CTR	
FH010 CA			G 234165	4	HANDLE	2
			64959		CRES BAR .187 DIA, 5-1/8 LG X 1-3/16 W X 5/8 THK O/A, 3/16 R BEND EA END 31/32 FROM END	
FH011	7CWX		G 234249-8	3	PLATE, IDENTIFICATION	1
			64959		AL ALY SH, .032 THK, ETCHED, 3-9/16 LG X 1-9/16 W O/A, FOUR .136 DIA MTG HOLES SPD .1250 X 3.250 C TO C, MKD GS-17467 TEST ADAPTER	
FH012	7CWX		G 234171	3	PANEL FRONT	1
			64959		C/O FRONT PANEL AND BACK PLATE PINNED TOGETHER, MTS 1 SEN SW AND 1 CONN ON BACK PLATE, AL ALY PLUS CRES CONST, 8 LG X 5-11/16 W X 3-1/8 D O/A, INSTRUCTION LABEL ON FRONT PLATE	
FH0123 AC			BL 38194-1	4	TERMINAL, STUD	2
			64959		C/O TERM MTG STUD & TERM STUD, MELMAC INSU MOLDING COMPOUND, 13/16 LG X .202 DIA O/A, MTS BY .112-40 THD X .156 LG, TERM STUD .281 LG	
FH0125 XA			BA 98203-35	4	PIN, SPRING	4
			64959 79-022-094-0500 72962		SPLIT TUBULAR, CRES, .094 OD X 1/2 LG X .022 THK WALL, BOTH ENDS CHAMFERED	
FH013 CA	8850	374600	G 206214	4	CONNECTOR, RECEPTACLE	1

REFERENCE SYMBOL	STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FH014	CC	3360	64959		21 RD GOLD PL FEMALE CONT W/THREE BODY SOLDER LUG TERM, POL, STR TYPE, RECT MLD MELAMINE BODY, 2-1/4 LG X 3/8 W X 25/32 H O/A, 1 CBORE HOLE & 1 NO 4-40 STUD ON 1.937 CTRS FOR MTG	1
			G 231285	4	SWITCH, SENSITIVE	
			64959		SPDT, 125/250 VAC RMS, 5 AMP NOM LOAD, 30 VDC, 4 AMP RESISTIVE LOAD, 2.5 AMP INDUCTIVE LOAD, PHEN BASIC SWITCH BODY, W/CRES FRAME, 27/32 LG X 7/16 W X 1-3/16 H O/A, 1/8 DIA CRES PLUNGER TYPE ACTUATOR, 3 SOLDER LUG TERM, MTS BY 1/4-40 X 3/8 LG THD BUSH, TWO HEX NUTS 3/32 THK X 3/8 ACROSS FLATS & ONE 7/16 DIA X 1/32 THK CRES LKG RING	1
			G 234414	4	LABEL, INSTRUCTION	
FH015	CA		64959		LETTERS OF NATURAL AL FUTURA, DEMIBOLD, 10 PT ON BLK DULL FIN AL FOIL, .003 THK 3-7/8 LG X 1-3/4 W O/A	1
FH016	AA		G 234171-2	4	PANEL, FRONT	1
			64959		C/O 4 PINS, STL PLATE & AL ALY PANEL, 8 LG X 5-11/16 W X 3-1/8 H O/A	
FH017	CA		G 234158	5	PLATE, BACK	1
			64959		.180 THK CRES STL, 3-47/64 LG X 2-47/64 W O/A, ONE 1/4-40 TAPPED HOLE FOR MTG SWITCH, ONE 1.718 LG X 7/16 W CUTOUT W/.125 DIA CBORE HOLE ON EA END FOR MTG CONN, ONE 6-32 X 1/4 D HOLE CTR EA END FOR MTG	
FH018	AA		BA 98203-35	5	PIN, SPRING	4
			64959		SPLIT TUBULAR, CRES, .094 OD X 1/2 LG X	

REFERENCE SYMBOL	STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
	CLASS CODE	SERIAL NUMBER	PART NUMBER			
FH0149 CA			79-022-094-0500 72962		.022 THK WALL, BOTH ENDS CHAMFERED	1
			G 234170 64959	4	PANEL, FRONT AL ALY, ALKALI ETCH 8.00 LG X 5-11/16 W X 3.125 THK O/A, C/O PANEL FRONT W/ RECTANGULAR TUBING 3-3/4 LG X 2-3/4 W X 3 D WELDED 2-1/8 X 1-15/16 CTR, 8 HOLES .196 DIA FOR MTG PURPOSES	1
FH015			G 234242-1 64959	3	CASE, TEST ADAPTER AL ALY SH & ANGLE CONST, ALKALI ETCH FIN, C/O 3 DOORS, 1 FRAME & 1 PLATE 4-1/2 LG X 4-7/16 W X 6-13/16 D O/A	1
FH016			BA 10091-760 64959	4	PIN, STRAIGHT HEADED NIC PLT, CAD PLT, 5/16 OD X .360 LG O/A	4
FH017			BA 10091-966 64959	4	SPRING, HELICAL TORSION, MUM, CAD PLT, .045 DIA, .991 LG X 5/16 W X .200 D O/A	4
FH018			G 650145-1 64959	4	NUT, SELF LOCKING HEX RED NYLON & STL, CAD PLT, SELF LOCKING NYLON INSERT, HEX TYPE, .250 ACROSS FLTS X .143 THK 4-40 NC-3B THD	4
FH019			G 234243 64959	4	PLATE AL ALY SH .064 THK, ALKALI ETCH FIN, 6-1/16 LG X 4-5/16 W O/A, W/FOUR .125 DIA & CSK 82 DEG TO .225 DIA MTG HOLES SPACED ON 4.687 X 3.750 CTRS, 3 LG X 1 W W/1/8 R CORNERS, HOLE IN CTR, MKD G-234243	1
FH020 CC			G 234659 64959	3	RESISTOR CAPACITOR ASSEMBLY, C/O BOARD MTG 20 TERMS, 7 RES	1

REFERENCE SYMBOL		STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
	FH021	CC		G 234137 64959	4	AND 1 CAP, 3-1/4 LG X 3-1/16 W X 3/4 THK APPROX O/A, MTS BY FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
	FH0215	AC		G 234137-3 64959	4	TERMINAL BOARD C/O LAM THERMO PLSTC BOARD 3/32 THK MTG 20 TERMS 3-1/4 LG X 3-1/16 W X 7/16 THK O/A, FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
R2806	FH022	XA	3350 447000-34795	D 178618C 208 OHMS 64959	4	RESISTOR, FIXED 208 OHMS, P/M .10%, 1 4 W	1
R2806	FH0225	AA		D 178618C 2080 OHMS 64959	4	RESISTOR, FIXED 2080 OHMS, P/M 10%, 1/4 W	1
R2804	FH023	CA		D 178618C 741 OHMS 64959	4	RESISTOR, FIXED 741 OHMS, P/M .10%, 1/4 W	1
R2805	FH024	XA		D 178618C 4930 OHMS 64959	4	RESISTOR, FIXED 4930 OHMS, P/M .10%, 1/4 W	1
R2805	FH0245	AA		D 178618C 3050 OHMS 64959	4	RESISTOR, FIXED 2080 OHMS, P/M .10%, 1/4 W	1
R2803	FH025	CA		D 178619C 80,090 OHMS 64959	4	RESISTOR, FIXED 80,090 OHMS, P/M .10%, 1 W	1
R2801	FH026	CC	3350 384500-2261	GA 50084A2741	4	RESISTOR, FIXED, FILM	1

REFERENCE SYMBOL		STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2811	FH027	CC 3350	392500-5151	GA 50086A5114 64959	4	2,740 OHMS, P/M 1%, 3/4 W, RESISTOR, FIXED, FILM 5.11 MEG, P/M 1%, 2 W,	1
R2802	FH028	CC 3350	377500-3287	GA 50508A5111 64959	4	RESISTOR, FIXED, FILM 5,110 OHMS, P/M 1%, 1/4 W,	1
R2833	FH0285	AA		GA 50083A4223 64959	4	RESISTOR, FIXED, FILM .422 MEG, P/M 1%, 1/4 W	1
C2801 C2802	FH029	CA 3330	055725218	GA 51575 64959	4	CAPACITOR, FIXED ELECTROLYTIC, 1 SEC, 15 MF P/M 20%, 6 VDCW, METAL CASE, 15/16 LG X 9/32 DIA O/A EXCL TERM, 2 WIRE TERM	2
	FH030	CC		G 234660 64959	3	RESISTOR ASSEMBLY C/O BOARD MTG 36 TERMS AND 15 RES, 5-9/16 LG X 3-1/16 W X 3/4 THK APPROX O/A, MTS BY FOUR .152 DIA HOLES ON 5.062 X 2.437 CTRS	1
	FH031	CA		G 234159 64959	4	TERMINAL BOARD LAM THERMO PLSTC BOARD 3/32 THK MTG 36 TERMS 5-9/16 LG X 3-1/16 W X 7/16 THK O/A, FOUR .152 DIA HOLES ON 5.062 X 2.375 CTRS	1
R2810	FH032	CA 3350		D 178618C 422 OHMS 64959	4	RESISTOR, FIXED 422 OHMS, P/M .10%, 1/4 W	1
R2809	FH033	XA 3350		D 178618C 649 OHMS 64959	4	RESISTOR, FIXED 649 OHMS, P/M .10%, 1/4 W	1
R2809	FH0335	AA		D 178618C 44.8 OHMS	4	RESISTOR, FIXED 44.8 OHMS, P/M .10%, 1/4 W	1

REFERENCE SYMBOL		STOCK NUMBER			INCIDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2808	FH034	XA	3350	D-178618C 2740 OHMS 64959	4	RESISTOR, FIXED 2740 OHMS, P/M .10%, 1/4 W	1
R2808	FH0345	XC		D 178618C 127 OHMS 64959	4	RESISTOR, FIXED 127 OHMS, P/M .10%, 1/4 W	1
R2808	FH0347	AC		D 178618C 67 OHMS 64959	4	RESISTOR, FIXED 67 OHMS, P/M .10%, 1/4 W	1
R2807	FH035	XA	3350	D 178618C 6190 OHMS 64959	4	RESISTOR, FIXED 6190 OHMS, P/M .10%, 1/4 W	1
R2807	FH0355	XC		D 178618C 10,500 OHMS 64959	4	RESISTOR, FIXED 10,500 OHMS, P/M .10%, 1/4 W	1
R2807	FH0357	AC		D 178618C 10,560 OHMS 64959	4	RESISTOR, FIXED 10,560 OHMS, P/M .10%, 1/4 W	1
R2814 R2815 R2816 R2817 R2818 R2819	FH036	CC	3350	469000-8267 D 178619C 80,600 OHMS 64959	4	RESISTOR, FIXED 80,600 OHMS, P/M .10%, 1 W	6
R2820	FH037	CC	3350	384500-4291 GA 50084A6812 64959	4	RESISTOR, FIXED, FILM 68,100 OHMS, P/M 1%, 3/4 W,	1
R2829 R2830	FH038	CC	3350	377500-2473 GA 50508A1961 64959	4	RESISTOR, FIXED, FILM 1,960 OHMS, P/M 1%, 1/4 W,	2

REFERENCE SYMBOL		STOCK NUMBER			IDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2828	FH039	CC	377500-1884	GA 50508A7150 64959	4	RESISTOR, FIXED, FILM 715 OHMS, P/M 1%, 1/4 W,	1
R2834	FH0395	CC		GA 50508A5362 64959	4	RESISTOR, FIXED 53,600 OHMS, P/M 1%, 1/4 W,	1
	FH040	CC		G 234661 64959	3	RESISTOR ASSEMBLY C/O BOARD MTG 20 TERMS AND 10 RES, 3-1/4 LG X 3-1/16 W X 3/4 THK APPROX O/A, MTS BY FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
	FH041	CC		G 234137 64959	4	TERMINAL BOARD LAM THERMO PLSTIC BOARD MTG 20 TERMS, 3-1/4 LG X 3-1/16 W X 7/16 THK O/A, FOUR .152 DIA HOLES ON 2.750 X 2.375 CTRS	1
R2825	FH042	CA	3350	D 178618C 100 OHMS 64959	4	RESISTOR, FIXED 100 OHMS, P/M .10%, 1/4 W	1
R2827	FH043	CA	3350	D 178618C 114 OHMS 64959	4	RESISTOR, FIXED 114 OHMS, P/M .10%, 1/4 W	1
R2824	FH044	XA	3350	D 178618C 249 OHMS 64959	4	RESISTOR, FIXED 249 OHMS, P/M .10%, 1/4 W	1
R2824	FH0445	AA		D 178618C 124 OHMS 64959	4	RESISTOR, FIXED 124 OHMS, P/M .10%, 1/4 W	1
R2822	FH045	XA	3350	D 178618C 505 OHMS 64959	4	RESISTOR, FIXED 505 OHMS, P/M .10%, 1/4 W	1

GS-16744 AMPLIFIER SUBASSEMBLY TEST EQUIPMENT

Section VI

Parts List

REFERENCE SYMBOL		STOCK NUMBER			INDET	DESCRIPTION	UNITS PER ASST.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
R2822	FH0455	AA		D 178618C 126 OHMS 64959	4	RESISTOR, FIXED 126 OHMS, P/M .10%, 1/4 W	1
R2823	FH046	XA	3350	D 178618C 750 OHMS 64959	4	RESISTOR, FIXED 750 OHMS, P/M .10%, 1/4 W	1
R2823	FH0465	AA		D 178618C 876 OHMS 64959	4	RESISTOR, FIXED 876 OHMS, P/M .10%, 1/4 W	1
R2826	FH047	CC	469000-8228	D 178618C 787 OHMS 64959	4	RESISTOR, FIXED 787 OHMS, P/M .10%, 1/4 W	1
R2821	FH048	CA	3350	D 178619C 75,000 OHMS 64959	4	RESISTOR, FIXED 75,000 OHMS, P/M .10%, 1 W	1
R2812	FH049	XA	3350	D 176176A .340 MEG 64959	4	RESISTOR, FIXED .340 MEG, P/M 1%, 1 W	1
R2831 R2832	FH0495	CB		D 176176A 5.0 MEG 64959	4	RESISTOR, FIXED 5.0 MEG, P/M 1%, 1 W	2
R2813	FH050	XB	3350	D 176176A .365 MEG 64959	4	RESISTOR, FIXED .365 MEG, P/M 1%, 1 W	2
R2813	FH0505	AB		D 176176A .787 MEG 64959	4	RESISTOR, FIXED .787 MEG, P/M 1%, 1 W	1
R2812	FH0507	AC		D 176176A	4	RESISTOR, FIXED	1

REFERENCE SYMBOL		STOCK NUMBER			INDENT	DESCRIPTION	UNITS PER ASSY.
		CLASS CODE	SERIAL NUMBER	PART NUMBER			
FH051	XA			29,400 OHMS 64959		29,400 OHMS, P/M 1%, 1 W	1
				G 234841 64959	3	WIRING HARNESS	
				BA 98327-4 64959	4	TERMINAL, LUG	1
FH052	XA	8880	747000-3995				
FH053	CC			G 235826 64959	3	BAR, RETAINING GRES BAR, .125 THK X 6 LG X 1/4 H O/A, SEVEN HOLES .112-40 NC-2B TAP HOLES IRREG SPD ONE SIDE	2

